LOUISIANA WATER QUALITY MANAGEMENT PLAN

VOLUME 8

WASTELOAD ALLOCATIONS/TOTAL MAXIMUM DAILY LOADS AND EFFLUENT LIMITATIONS POLICY

Louisiana Water Quality Management Plan
Volume 8

Document Revision Record

Revision Date	Basin	Subsegment	Waterbody	Revision
1/26/2009	Vermilion Teche	060201	Bayou Cocodrie	Replaced copper point source load allocation of 0.507 lbs/day and copper TMDL of 0.691 lbs/day with the revised TMDL data from the fourth revision developed by LDEQ dated 12/6/2007.
1/26/2009	Pearl River	090105	Pearl River Navigation Canal, Pools Bluff to Lock No. 3	Added DO TMDL developed by Tetra Tech for EPA dated 3/25/2008, and revised 9/10/2008.
1/26/2009	Pearl River	090204	Pearl River Navigation Canal, Below Lock No. 3	Added DO TMDL developed by Tetra Tech for EPA dated 3/25/2008, and revised 9/10/2008.
1/26/2009	Pearl River	090207	Middle River and West Middle River, West Pearl River to Little Lake	Added DO TMDL developed by Tetra Tech for EPA dated 3/25/2008, and revised 9/10/2008.
1/26/2009	Pearl River	090101	Pearl River, Mississippi state line to Pearl River Navigation Canal	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090102	East Pearl River, Holmes Bayou to I-10	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090103	East Pearl River, from I-10 to Lake Borgne	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090105	Pearl River Navigation Canal, Pools Bluff to Lock No. 3	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090106	Holmes Bayou, Pearl River to West Pearl River	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090107	Pearl River, Pearl River Navigation Canal to Holmes Bayou	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090201	West Pearl River, headwaters to Holmes Bayou	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090202-05126	Morgan River, Porters River to West Pearl River	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090203	Bogue Chitto, Pearl River Navigation Canal to Wilson Slough	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090204	Pearl River Navigation Canal, below Lock No. 3	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.

Revision Date	Basin	Subsegment	Waterbody	Revision
1/26/2009	Pearl River	090205	Wilson Slough, Bogure Chitto to West Pearl River	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090206	Bradley Slough, Bogue Chitto to West Pearl River	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090207	Middle River and West Middle River, West Pearl River to Little Lake	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090207-5112	Morgan Bayou, headwaters near I-10 to Middle River	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090501	Bogue Chitto, Mississippi state line to Pearl River Navigation Canal	Added mercury TMDL developed by Tetra Tech for EPA dated 9/17/2007.
1/26/2009	Pearl River	090101	Pearl River, Mississippi state line to Pearl River Navigation Canal	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090104	Peters Creek, headwaters to Pearl River	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090301	Pushepatapa Creek, Mississippi state line to Pearl River floodplain	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090401	Bogue Lusa Creek, headwaters to Pearl River	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090502	Big Silver Creek, headwaters to Bogue Chitto River	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090505	Bonner Creek, headwaters to Bogue Chitto River	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090506	Thigpen Creek, headwaters to Bogue Chitto River	Added fecal coliform TMDL developed by FTN Associates for EPA dated 3/31/20008.
1/26/2009	Pearl River	090106	Holmes Bayou from the Pearl River to the West Pearl River	Added turbidity TMDL developed by FTN Associates for EPA dated 3/31/2008.
1/26/2009	Pearl River	090201	West Pearl River from headwaters to confluence with Holmes Bayou	Added turbidity TMDL developed by FTN Associates for EPA dated 3/31/2008.
1/26/2009	Pearl River	090202	West Pearl River from confluence with Holmes Bayou to the Rigolets	Added turbidity TMDL developed by FTN Associates for EPA dated 3/31/2008.
1/26/2009	Pearl River	090501	Bogue Chitto River from Mississippi state line to Pearl River Navigation Canal	Added turbidity TMDL developed by FTN Associates for EPA dated 3/31/2008.

Revision Date	Basin	Subsegment	Waterbody	Revision
1/26/2009	Red River	100404	Cypress Bayou Reservoir	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	100405	Black Bayou Reservoir	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	100406	Flat River	Added DO and Nutrients TMDL developed by FTN Associates for EPA dated 3/24/2008.
1/26/2009	Red River	100501	Bayou Dorcheat from Arkansas state line to Lake Bistineau	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	100501	Bayou Dorcheat from Arkansas state line to Lake Bistineau	Added Mercury TMDL developed by FTN Associates for EPA dated 3/26/2008.
1/26/2009	Red River	100601	Bayou Pierre from headwaters to Bayou Pierre	Added DO and Nutrient TMDL developed by FTN Associates for EPA dated 3/21/2008.
1/26/2009	Red River	100602	Boggy Bayou from headwaters to Wallace Lake	Added DO and Nutrient TMDL developed by FTN Associates for EPA dated 3/24/2008.
1/26/2009	Red River	100605	Lake Edwards/Smithport Lake Watershed	Added DO and Nutrients TMDL developed by LDEQ and dated 6/13/2007.
1/26/2009	Red River	100702	Black Lake Bayou	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	100703	Black Lake and Clear Lake	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	100803	Saline Bayou	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	101301	Bayou Rigolette	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	101302	Iatt Lake	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Red River	101604	Lake Concordia	Added DO TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Sabine River	110401	Bayou Toro	Added DO TMDL developed by FTN Associates for EPA dated 3/21/2008.
1/26/2009	Sabine River	110501	West Anacoco Creek	Added DO and Nutrients TMDL developed by LDEQ and dated 11/15/2007.
1/26/2009	Terrebonne	120102	Bayou Poydras	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.

Revision Date	Basin	Subsegment	Waterbody	Revision
1/26/2009	Terrebonne	120103	Bayou Choctaw	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120105	Chamberlin Canal	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120106	Bayou Plaquemine	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120107	Upper Grand River and Lower Flat River	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120109	Intracoastal Waterway	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120110	Bayou Cholpe	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120202	Bayou Black	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120204	Lake Verret and Grassy Lake	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120304	Intracoastal Waterway; Houma to Larose	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120403	Intracoastal Waterway; Bayou Boeuf Locks to Bayou Black in Houma	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120604	Bayou Blue	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120205	Lake Palourde	Added pH TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Terrebonne	120402	Bayou Chene from Intracoastal Waterway to Bayou Penchant	Added pH TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Terrebonne	120206	Grand Bayou and Little Grand Bayou	Added BOD and Nutrients TMDL developed by LDEQ and dated

Revision Date	Basin	Subsegment	Waterbody	Revision
				3/31/2008.
1/26/2009	Terrebonne	120206	Grand Bayou and Little Grand Bayou	Added TSS TMDL developed by Tetra Tech for EPA dated 3/14/2008.
1/26/2009	Terrebonne	120301	Bayou Terrebonne	Added BOD and Nutrients TMDL developed by LDEQ and dated 3/19/2008.
1/26/2009	Terrebonne	120302	Bayou Folse	Added BOD and Nutrients TMDL developed by LDEQ and dated 3/31/2008.
1/26/2009	Terrebonne	120303	Bayou L'Eau Bleu	Added BOD and Nutrients TMDL developed by LDEQ and dated 3/31/2008.
1/26/2009	Terrebonne	120401	Bayou Penchant	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120404	Lake Penchant	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120405	Lake Hatch and Lake Theriot	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120406	Lake de Cade	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008 and revised 9/30/2008.
1/26/2009	Terrebonne	120504	Bayou Petit Caillou	Added BOD and Nutrients TMDL developed by LDEQ and dated 3/31/2008.
1/26/2009	Terrebonne	120505	Bayou Du Large	Added BOD and Nutrients TMDL developed by LDEQ and dated 5/11/2007.
1/26/2009	Terrebonne	120507	Bayou Chauvin	Added BOD and Nutrients TMDL developed by LDEQ and dated 7/18/2007.
1/26/2009	Terrebonne	120606	Bayou Blue	Added DO and Nutrients TMDL developed by Tetra Tech for EPA dated 3/14/2008.
1/26/2009	Terrebonne	120708	Lost Lake and Four League Bay	Added DO and Nutrients TMDL developed by FTN Associates for EPA dated 3/25/2008.
1/26/2009	Terrebonne	120709	Bayou Petite Caillou	Added DO and Nutrients TMDL developed by FTN Associates for EPA dated 3/24/2008.

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LOUISIANA WATER QUALITY MANAGEMENT PLAN

WASTELOAD ALLOCATIONS AND DISCHARGER INVENTORY
INTRODUCTION

This volume of the Louisiana Water Quality Management Plan (the Plan) includes the policies and guidelines which form the basis for the effluent limitations set forth in Louisiana Department of Environmental Quality (LDEQ) wastewater discharge permits. In order to meet the requirements of Federal Water Quality Planning and Management regulations, 40 CFR Part 130, policies have been developed and/or wasteload allocations established through water quality modeling efforts, and these are described within this document. Based upon these policies or wasteload allocations, effluent limits are established to ensure that water quality standards are met and designated uses are protected in the receiving streams. The effluent limits and policies contained herein supersede those contained in previous editions of the Louisiana Water Quality Management Plan.

Any facility which is discharging into any waters of the state is required by law to apply for a wastewater discharge permit. All dischargers must submit a permit application to the LDEQ, Office of Environmental Services, Permits Division.

For the purpose of identifying those waterbodies which are not meeting water quality standards, an analysis of current water quality data is performed for all ambient water quality monitoring sites every two years. Utilizing this data analysis, the State prioritizes those waterbodies for development of total maximum daily loads (TMDLs) and wasteload allocations. Some of these waterbodies may require implementation of additional control measures to meet water quality standards. Those waterbodies which are not meeting applicable water quality standards are classified as *water quality limited*. The main stems of the Atchafalaya River (segments 0101, 0102, 0105, 0108), the Red River (segments 1001, 1002), and the Mississippi River (segments 0701, 0702, 0703) are classified as effluent limited. These major rivers are classified as effluent limited because they are expected to meet applicable water quality standards due to their large assimilative capacity. Sanitary waste treatment facilities which discharge directly into one of these major rivers or into any river, bayou, canal, or distributary of one of these rivers having a 7Q10 flow greater than or equal to the minimum 7Q10 flow of any of these three rivers are required to meet secondary levels of treatment. All other waterbodies of the state are classified based upon the assessment of current water quality data; these classifications are provided in the State's biennial water quality report, known as the *305(b) Report* or *the Integrated Report*. Facilities discharging into water quality limited waterbodies will be assigned effluent limits on a case-by-case basis as TMDLs are

developed. These classifications will be revised as data becomes available which, upon evaluation, justifies a change in classification.

The assignation of effluent limitations is based on the designated uses of the receiving waterbody, the water quality in the area, the number and type of discharges to the waterbody, and the assimilative capabilities on the waterbody in question. The State has a number of assignation policies which are used to address these and other pertinent factors in decisions regarding the preservation of water quality. The procedural conditions applied in the development of effluent limits for discharge permits are explained below.

(1) ANALYTICAL BASIS FOR DEVELOPMENT OF EFFLUENT LIMITS FOR SANITARY WASTEWATER TREATMENT FACILITIES

All facilities (unless in an area specifically identified in the Areawide Policies or TMDL Based Limitations) with discharge flows of 25,000 gallons per day (GPD) or less are normally assigned secondary levels of treatment. Facilities with flow greater than 25,000 GPD are assigned limits based on the Statewide Sanitary Effluent Limitations Policy located in Appendix B. As time permits and TMDLs are developed, such facilities may be assigned limits on a case-by-case basis. In its assessment of discharges and development of necessary effluent limits the LDEQ may use the expected flow of discharge rather than the design capacity of the facility.

For permit writing purposes, the total suspended solids (TSS) effluent limitations shall be based on a case-by-case evaluation of the treatment technology utilized. Since there is no numeric water quality criterion for TSS, these limitations are not water quality based. However, under no circumstances shall final TSS effluent limitations be less stringent than secondary treatment levels as defined in LAC 33:IX.709.

Appendix C contains policies for the establishment of permit conditions for those wastewater treatment facilities accepting hauled domestic septage.

(2) INDIVIDUAL DISCHARGE ANALYSIS

It is to be noted that the limits applied in this plan are minimum limits. The LDEQ reserves the right to perform individual analyses for any particular discharge should such analyses be warranted based upon the LDEQ's assessment of ambient conditions, chemical characteristics and/or physical characteristics of the effluent being discharged. The LDEQ also reserves the right to assign an effluent limitation based upon the individual analysis, regardless of any previously established effluent limitation. Should any discharger be dissatisfied with the effluent limitation assigned in the Plan, the individual discharger may request alternate permit limits by performing an individual analysis which is supervised and approved by the Department. The

discharger will be responsible for meeting any limit assigned through the execution of a subsequent individual analysis (wasteload allocation/total maximum daily load –TMDL-determination), regardless of whether the latter limit is more or less stringent than that which currently appears in the Plan. In all cases the LDEQ will follow standard procedures required for public review and comment for the effluent limits.

(3) AGGREGATE AREAL DISCHARGE FLOWS

The allocations appearing in the Plan normally apply to discharges which impact a receiving stream as single point sources. It may occasionally happen that a concentration of small dischargers have resulted in a total discharge to a common waterbody in such a manner that the combined water quality impact approximates that of a single point source discharge of considerably greater magnitude than any of the individual dischargers. In such a case, the LDEQ reserves the right to assign effluent limits to each individual discharge within the impacted area as though its flow were equal to the aggregate discharge flow of the discharger within that area. This procedure will be used for facilities whose individual discharge volumes are 25,000 GPD or less. Some examples of such cases are: a residential subdivision in which each residence has its own treatment facility; a number of subdivision treatment facilities in close proximity to one another; or, a group of commercial facilities such as restaurants, gas stations, office buildings, trailer parks, etc., each having its own treatment facility.

(4) INDUSTRIAL EFFLUENT LIMITATIONS

Effluent limitations set forth in industrial wastewater discharge permits are based upon approved EPA effluent guidelines for a facility type, if available, or best available technology/ best practicable technology when guidelines are not available. Certain types of minor industrial facilities are covered by LDEQ general permits. All industrial facilities permitted as such are subject to permit reissuance in the event that a TMDL is developed for the receiving stream into which they discharge. Wasteload allocations based upon an approved TMDL will result in water-quality-based effluent limitations which may be more stringent than technology-based limits. If it is otherwise determined by the LDEQ that a water-quality-based permit is required, then the effluent limitations will be derived according to the guidelines described in the *Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards, Volume 4 of the Water Quality Management Plan*.

(5) COMPLIANCE SCHEDULES

The LDEQ will assign compliance schedules for dischargers which are currently operating treatment facilities under the authority of a wastewater discharge permit, but whose effluent limits do not currently appear in the certified

State Water Quality Management Plan. The compliance schedule will detail the timeframe within which each permitted facility must upgrade its treatment level to conform to that indicated by subsequent wasteload allocations.

The LDEQ will implement finalized total maximum daily loads (TMDLs) in permits to require that the limits for point sources established in TMDLs be achieved:

i Immediately upon issuance of an LPDES permit to a new discharge[1] (including but not limited to new discharges and expanded/increased discharges at existing facilities) after the TMDL has been finalized; and

ii By every point source discharging pursuant to an existing permit within the earlier of three years from the effective date of the first renewal permit after the TMDL is finalized or six years from the finalization date of the TMDL, whichever occurs first."

[1] For the purposes of this section, the term new discharge shall be defined as the commencement of construction subsequent to finalization of an applicable TMDL.

These policies are located as appendices at the end of this document and are as follows:

Appendix A: (AELP)- This appendix contains a list of areawide policies for waterbody segments.

Appendix B: (SELP) - This appendix contains policies for establishing effluent limitations for sanitary wastewater treatment facilities which supersede limits assigned in the original 1980 Basin Plans.

Appendix C: Acceptance of Hauled Domestic Septage at Sanitary Wastewater Treatment Facilities. This appendix contains policies for the establishment of permit conditions for those sanitary wastewater treatment facilities which accept hauled domestic septage into the treatment facility.

ATCHAFALAYA RIVER BASIN

TMDLs/WLAs

EPA's Hg TMDL for Coastal Waters of Atchafalaya River Basin

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

BARATARIA BASIN

TMDLs/WLAs

Fecal Coliform TMDLs
For
Barataria Basin Subsegments

020401

Bayou Lafourche

http://www.epa.gov/earth1r6/6wq/ecopro/latmdl/lafourche_fctmdl052104_f.pdf

020701

Bayou Segnette

http://www.epa.gov/earth1r6/6wq/ecopro/latmdl/segnette_%20fctmdl052104_f.pdf

EPA's Hg TMDL for Coastal Waters of Barataria Basin

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

020101

Bayous Verret, Chevreuil, Citamon, and Grand Bayou

TMDL for BOD

	Summer (May-Oct)		Winter (Nov-Apr)	
	Reduction	Load (kg/day)	Reduction	Load (kg/day)
Point Source WLA	0%	7	0%	7
Point Source Reserve MOS (20%)		2		2
Natural Nonpoint Source LA	46%	2321	0%	3091
Natural Nonpoint Source MOS (0%)		0		0
Man-made Nonpoint Source LA	100%	0	98%	49
Man-made Nonpoint Source MOS (20%)		0		12
TMDL	--	2330	--	3161

File Number	Company	Facility	UTM Coordinates	Receiving Water	Expected flow (MGD)	BOD5 (mg/L)
LAG540340 WG020847	GREENBRIAR SEWER INC	GREENBRIAR SUBD.	3320819.595686 88394.17644	BAYOU VERRET	0.012	avg 30
LAG530914	BOH CONST CO	IMC AGRICO FAUSTINA PLT	3330054.711297 00381.52321	St James Ph Canal thence to Bayou Verret	0.0002	max 45
LAG540673	ST JAMES FACILITIES CORP	ST JAMES YOUTH CTR	3331017.511516 92486.29922	Unnamed ditch to Bayou Verret	0.0111	avg 30, max 45
LAG540680	ST JAMES PH HOUSING AUTHORITY	HYMEL HOUSING PROJ/WELCOM E	3327233.75729 705454.73704	Local drainage to Bayou Chevreuil	0.0147	avg 30, max 45
LAG560016	ABBY SANITARY SEWERAGE CORP	ABBY PLANTATION MHP	3304456.29959 706105.72376	ST. JAMES CANAL	0.036	avg 20
LA0000035	CALDWELL SUGARS COOPERATI VE, INC.	CALDWELL SUGAR MILL	3299903.296397 09128.73229	GRAND BAYOU	0.72	avg 10

LAG530788	TEXAS FUEL & ASPHALT	EAGLE ASPHALT PROD	3331539.295617 00541.67674	Local drainage to Bayou Verret		max 45

020102, 020103

Bayou Boeuf, Halpin Canal, Theriot Canal, and Lake Boeuf

TMDL for BOD

TMDL for subsegment 020102 (sum of CBODu, NBODu, and SOD).

	Summer (May-Oct)		Winter (Nov-Apr)	
	Reduction	**Load (kg/day)**	**Reduction**	**Load (kg/day)**
Point Source WLA	0%	123	0%	123
Point Source Reserve MOS (20%)		31		31
Natural Nonpoint Source LA	37%	2732	0%	3772
Natural Nonpoint Source MOS (0%)		0		0
Man-made Nonpoint Source LA	100%	0	92%	420
Man-made Nonpoint Source MOS (20%)		0		105
TMDL	--	2886	--	4451

TMDL for subsegment 020103 (sum of CBODu, NBODu, and SOD).

	Summer (May-Oct)		Winter (Nov-Apr)	
	Reduction	**Load (kg/day)**	**Reduction**	**Load (kg/day)**
Point Source WLA	0%	0	0%	0
Point Source Reserve MOS (20%)		0		0
Natural Nonpoint Source LA	37%	9003	0%	13360
Natural Nonpoint Source MOS (0%)		0		0
Man-made Nonpoint Source LA	100%	0	92%	7
Man-made Nonpoint Source MOS (20%)		0		2
TMDL	--	9003	--	13369

020201

Bayou des Allemands

EPA's TMDL for BOD and Nutrients

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/020201desalledonut_tmdl305f.pdf

020301

Bayou des Allemands

TMDL for BOD

TMDL for Bayou des Allemands (Sum of CBODu, NBODu, and SOD).

	Summer (May-Oct)		Winter (Nov-Apr)	
	Reduction	**Load (kg/day)**	**Reduction**	**Load (kg/day)**
Point Source WLA	0%	16	0%	16
Point Source Reserve MOS (20%)		4		4
Natural Nonpoint Source LA	0%	37374	0%	32756
Natural Nonpoint Source MOS (0%)		0		0
Man-made Nonpoint Source LA	86%	2251	0%	12499
Man-made Nonpoint Source MOS (20%)		563		3125
TMDL	--	40208	--	48400

Information for point source discharges in subsegment 020301.

FILE NUMBER	COMPANY	FACILITY TYPE	LOCATION	RECEIVING WATER	EXPECTED FLOW (MGD)	BOD5 LIMIT (MG/L)
LAG750349	Phat Daddy's	Commercial Car Wash	"Raceland, 1556 Hwy 90 e, lot #9"	"Godchaux Canal, via local drainage"		
LA0003239	Raceland Raw Sugars Corporation	"Sugar Mill, Raw Sugar & Molass"	"Raceland, Hwy 3199 & Mill St"	Godchaux Canal		Average 10
LAG540909	Gibbens & Lefort Inc Presto Fuel Center LLC	Truck Stop/Convenience Store/Rrest	"Raceland, on Hwy 90 e; 3 m e of LA 1"	Godchaux Canal	0.0075	Average 30
LAG530277, WG-010101	Judy's Trailer Park	"1,800 gpd Mechanical STP"	"des Allemands, Hwy 90"	Unnamed canal-Bayou des Allemands	0.0018	
WG110021	Somme's Lucky 7 Truck Stop	Service Station	des Allemands, 4298 Hwy 90			

020303

Lake Cataouatche

EPA's TMDL for BOD and Nutrients

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/020303cataoudonut_tmdl305f.pdf

020401

Bayou Lafourche

EPA's TMDL for BOD

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/blafourdo_nut020401f.pdf

020501

Main Canal and Ancillary Canals

TMDL for BOD

TMDL for Main Canal (Sum of CBODu, NBODu, and SOD).

	Summer (May-Oct)		Winter (Nov-Apr)	
	Reduction	Load (kg/day)	Reduction	Load (kg/day)
Point Source WLA	0%	268	0%	268
Point Source Reserve MOS (20%)		67		67
Natural Nonpoint Source LA	32%	287	2%	389
Natural Nonpoint Source MOS (0%)		0		0
Man-made Nonpoint Source LA	100%	0	100%	0
Man-made Nonpoint Source MOS (20%)		0		0
TMDL	--	622	--	724

Discharger Information for 020501

File Number	Company	Facility	Facility Type	Receiving Water	Expected Flow (Mgd)	Bod5 (Mg/L)	Tss (Mg/L)
La0093157	Southern Recovery Mgmt Inc	Greater New Orleans Landfill	Sanitary Landfill	Dusuaus Canal, Sellers Canal - B Verret - Lake Cataouatche	--	Avg 30, Max 45	Avg 90, Max 135
						Avg 30, Max 45	Avg 90, Max 135
La0099473	River Birch Inc	River Birch Landfill	Sanitary Landfill	Sauls Canal - Waggaman Canal - Outfall Canal - Lake Cataouatche	0.23+	Avg 30, Max 45	Avg 30, Max 45
						Avg 45	--
La0072214	Browning-Ferris Ind (Bfi)	Area Ninety Landfill, Inc	Sanitary Landfill	Inner Cataouatche Drainage C – Outer Cataouatche Drainage C - B Verret - Lake Cataouatche	--	Avg 30, Max 45	Avg 90, Max 135
La0059871	Paktank Corp	Westwego Terminal	Liquid Bulk Terminal Stormwate	Bayou Segnette (Via Canals And Ditches Within Subsegment 020501)	--	--	Max 90

La0089052	Jefferson Ph Dept Of Public Works	Jefferson Ph Ldfl	Landfill	Waggaman Canal - Outfall Canal - Lake Cataouatche	--	Avg 30, Max 45	Avg 90, Max 135

020701

Bayou Segnette

TMDL for BOD

TMDL for Bayou Segnette (Sum of CBODu, NBODu, and SOD).

	Summer (May-Oct)		Winter (Nov-Apr)	
	Reduction	Load (kg/day)	Reduction	Load (kg/day)
Point Source WLA	0%	1	0%	1
Point Source Reserve MOS (20%)		0		0
Natural Nonpoint Source LA	34%	9589	0%	12075
Natural Nonpoint Source MOS (0%)		0		0
Man-made Nonpoint Source LA	100%	0	71%	3091
Man-made Nonpoint Source MOS (20%)		0		773
TMDL	--	9590	--	15940

Information for point source discharges in subsegment 020701

File Number	Company	Facility	Facility Type	Receiving Water	Expected flow (MGD)	BOD5 (mg/L)
LAG530881	Master Lube of LA, Inc.		Oil Lube Cntr	Estelle Canal	0.001	45
LAG530921	Jefferson Parish Dept. Drainage Pump Sta.	Ames Pump Sta.	Drainage Pump Station	Bayou Segnette (via Millaudon Canal)	0.00008	45
LAG110008	Lafarge Construction Materials	Westbank Plant	Ready Mix Concrete Plant	Bayou Segnette		
LA0108022	Hilcorp Energy Co.		Oil/Gas Exp. Prod. &Dev.	B. Segnette, Dugas C, Outer Cataouatche		
LAG530923	Jefferson Parish Dept. Drainage Pump Sta.	Westminster Lincolnshire Pump Sta.	Drainage Pump Station	Bayou Segnette (via unnamed canal)	0.00008	45

CALCASIEU RIVER BASIN

TMDLs/WLAs

TMDL for Lead
for
Calcasieu River

030101, 030102, 030103

TMDL for lead = 0.287 lb/day

WLA = 0

LA = 0.229 lb/day

030103

Kinder Ditch

Wasteload Allocation (WLA)

Facility: Town of Kinder STP

LPDES # LA0020605

Effluent Limits: Summer 5 mg/L $CBOD_5$/ 2 mg/L NH_3-N/ 6 mg/L DO
Winter 10 mg/L $CBOD_5$/ 10 mg/L NH_3-N/ 6 mg/L DO

EPA's Calcasieu River Basin TMDLs for Selected Toxics

http://www.epa.gov/region6/water/ecopro/latmdl/calctoxics(f).pdf

Subsegments

030301
030302
030303
030304
030305
030306
030401
030402
030901

Fecal Coliform TMDLs
For
Calcasieu River Basin Subsegments

030305 Contraband Bayou

http://www.epa.gov/region6/water/ecopro/latmdl/fccontraband(f).pdf

030601, 030602

Barnes Creek

TMDL for BOD

Total Maximum Daily Load for Barnes Creek, 030602 (to meet 5.0 mg/L Dissolved Oxygen criterion)

(Sum of CBOD, NH_3-N, and SOD)

ALLOCATION	Summer	Winter
	May – Oct (lbs/day)	Nov - Apr (lbs/day)
Point Source WLA*	1144	1144
Point Source Reserve MOS	286	286
Total Nonpoint Source LA	1786	1208
Total Nonpoint Source Reserve MOS	445	301
Total Nonpoint Reduction	70%	70%
TMDL	3661	2939

* The City of DeRidder was the only significant discharger located on Barnes Creek. This discharger is located in subsegment 030601. The seasonal summer dissolved oxygen standard for this subsegment is 2.0 mg/l. No reductions in permit limits for The City of DeRidder are required to maintain this seasonal standard.

Limits for all other facilities in these subsegments are generally set by state policy or guidelines and can continue as such.

City of DeRidder
LA0038407
3.03 MGD
10 mg/L BOD_5/15 mg/L TSS

030603

Marsh Bayou

TMDL for BOD

TMDLs and LAs for Marsh Bayou, 030603 (to meet 5.0 mg/L DO criterion)

Loading Description	Summer season (May – Oct.) BOD Load (lbs./day)	Winter season (Nov. – April) BOD Load (lbs./day)
Total point source allocations* (WLA)	0	0
Point source margin of safety (MOS)	0	0
Headwater/Tributary Loads	95	110
Benthic Loads (based upon nonpoint and SOD loads used in the projection)	714	490
Total maximum daily load (TMDL)	809	600
Nonpoint source margin of safety (MOS for benthic and boundary loads)	0	0
Natural Nonpoint Load	809	600
Man-Made Nonpoint Load	0	0

* Based on available LA DEQ permit data available at the time this TMDL was developed, there were no facilities that were known to be discharging into Marsh Bayou or any of its tributaries.

030701

Bayou Serpent for Fipronil (pesticide)

http://www.epa.gov/region6/water/ecopro/latmdl/serpent_fipronil(f).pdf

030701

Bayou Serpent

TMDL for BOD

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD) for Bayou Serpent, 030701

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	35	0	35
Point Source MOS (20%)	0	9	20	9
Nonpoint Source LA	90	545	50	3471
Nonpoint Source MOS (0% Summer; 10%, Winter)	0	0	10	371
TMDL		589		3886

The discharger inventory for the Bayou Serpent watershed was reviewed. There are only 4 dischargers listed in the LDEQ Permit Tracking System. These facilities were evaluated based on the volume of their discharge, their location with respect to the listed waterbody, any water quality data which demonstrated their impact or lack of impact, whether or not the NPS contribution included any small facilities, and best professional judgment. Only the Village of Fenton was considered to have any ability to impact the target reaches. The Village of Fenton discharges to an unnamed ditch which flows 1.68 miles to Little Bayou thence 5.35 miles to Bayou Serpent. An uncalibrated model was performed for the receiving stream for the Village of Fenton STP: the Unnamed Ditch to Little Bayou to Bayou Serpent. The uncalibrated model showed that Fenton has no impact on either Little Bayou or Bayou Serpent. The results of the uncalibrated model were entered in the summer projection model for Bayou Serpent. The list of facilities and the modeling decision for each is shown on the following page.

Discharger Inventory for Subsegment 030701

FACILITY	FILE_NUM	Out-fall No.	OUTFALL DESCRIPTION	FAC_TYPE	REC_WATER	EXPECTED FLOW, GPD	BOD, mg/L	TSS, mg/L	MODELING COMMENTS
KINDER COMP. STA. 823	LA 0045918	1	storm water runoff, treated sanitary from 101, equipment washwater, condensed water from air compressor system, and building floor drainage	NATURAL GAS COMPRESSOR STATION	UNNAMED DITCHES - GUM BAYOU-SERPENT BAYOU				No Impact - Not modeled
KINDER COMP. STA. 823	LA 0045918	101	sanitary sewage	NATURAL GAS COMPRESSOR STATION	UNNAMED DITCHES - GUM BAYOU-SERPENT BAYOU	480	45	45	expected flow is from new app; permit has 400 gpd; No Impact - Not modeled
FENTON, VILLAGE OF (STP)	LAG 560102	1	sanitary sewage	45,000 GPD EXT. AIR T.P.	DITCH-LITTLE BAYOU-BAYOU SERPENT	36000	20	20	Class III permit for Q< 50,000; App indicates a design flow of 36,000 gpd; DMRs indicate wide variation from month to month; need uncalibrated model
Mobile City Campground	LAG 540826	1	sanitary sewage	CAMPGROUND/STP	LOCAL-BAYOU SERPEANT	6250	30	30	Class II permit for Q< 25,000; App indicates a design flow of 6,250 gpd based on 125 campsites; discontinuous flow, seasonal, ditch dry during recon; No Impact - Not modeled
WOODLAWN COMPRESSOR STA	LA 0111881	1	storm water runoff	NAT GAS COMPRESSOR STA	BAYOU ARCENEAUX				No Impact - Not modeled
WOODLAWN COMPRESSOR STA	LA 0111881	2	sanitary sewage	NAT GAS COMPRESSOR STA	BAYOU ARCENEAUX	500			No Impact - Not modeled
FACILITY	**FILE_NUM**	**Out-fall No.**	**OUTFALL DESCRIPTION**	**FAC_TYPE**	**REC_WATER**	**EXPECTED FLOW, GPD**	**BOD, mg/L**	**TSS, mg/L**	**MODELING COMMENTS**
WOODLAWN	LA 0111881	3	storm water runoff	NAT GAS COMPRESS	BAYOU ARCENEAUX				No Impact - Not modeled

COMPRESSOR STA	81			OR STA					
RICE ACRES WELL PIPELINE	LAR 10B045	1	unknown	CONST SWGP	LITTLE BAYOU				Construction activities storm water only; potential for discharge is "unlikely";
IOWA GAS PLT	LA 0093921	1	sanitary sewage	NATURAL GAS PROCESSING	UNNAMED DITCH - LOUISIANA IRRIGATION CANAL - BAYOU ARCENEAUX - CALCASIEU RIVER	1080	45	45	Zero discharge system was installed but there are bypasses which can be used to divert any overflow to the stream. Discharges to English Bayou, not Bayou Serpent

The existing point sources have no impact on the main stem of Bayou Serpent and require no changes to their permitted discharges.

030702

English Bayou

TMDL/WLA for BOD

Calcasieu Sewer District # 11	0.22 MGD	10 $CBOD_5$/10 NH_3-N/2 DO

Turbidity, TSS, TDS, Cl TMDLs
For
Calcasieu River Basin Subsegments

030702 English Bayou for Turbidity
http://www.epa.gov/region6/water/ecopro/latmdl/engtss(f).pdf

030804

Little River

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NBOD, and SOD) for Little River, 030804

	Summer season (Mar – Nov)		Winter season (Dec – Feb)	
Point source allocations (WLA)	BOD Load (lbs./day)	% of TMDL	BOD Load (lbs./day)	% of TMDL
Total point source allocations (WLA)	0	0	0	0
Point source margin of safety (MOS)	0	0	0	0
Headwater/Tributary Loads	9	1	91	10
Benthic Loads (based upon nonpoint and SOD loads used in the projection)	1155	88	693	74
Incremental Loads	148	11	148	16
Total maximum daily load (TMDL)	1312	100	932	100
Nonpoint source margin of safety (MOS for benthic, incremental, and boundary loads)	262	20	186	20

Point source dischargers:

At the time that this TMDL was developed, Subsegment 030804 was void of any known oxygen-demanding point source dischargers. There is a CECOS facility along the lower reaches of Little River. Based upon permit file research and a site visit during the reconaissance survey, it was determined that all of the cells and lagoons at this site have been closed. The company uses this facility only for deep well injection. According to the permit file information, this facility discharges stormwater at three different outfalls during rainfall events. It is not permitted for oxygen-demanding substances.

030805

Indian Bayou

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NBOD, and SOD) for Indian Bayou, 030805

Current Standard:	Summer season (Mar - Nov)		Winter season (Dec - Feb)	
	BOD Loading (lbs/day)	% of TMDL	BOD Loading (lbs/day)	% of TMDL
Headwater/Tributary Loads	18	0.22	65	0.74
Benthic Loads	5,604	79.78	5,604	79.26
Point Source Loads	0	0	0	0
Margin Of Safety	1,401	20.00	1,401	20.00
Reduction of man-made nonpoint	60%		60%	
Total maximum daily load (TMDL)	7,024	100	7,070	100

The dischargers located in this watershed will be given effluent limitations according to the state effluent limitations policy.

030806

Houston River

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NBOD, and SOD) for Houston River, 030806

	3 mg/L DO, Mar-Nov	5 mg/L DO, Dec-Feb
Point Source WLA, lb/day of oxygen demand	322	322
Point Source MOS, lb/day of oxygen demand	79	79
Nonpoint LA, lb/day of oxygen demand	7162	11262
Nonpoint MOS, lb/day of oxygen demand	0	988
TMDL, lb/day of oxygen demand	7563	12651

Permit Limits for Facilities Included in the Houston River TMDL Model:

City of DeQuincy (discharges to Buxton Creek 13.5 miles from the Houston River)
LA0038709
1.1 MGD
10 mg/L $CBOD_5$/2 mg/L NH_3-N/5 mg/L DO

Permit Limits for Facilities Not Included in the Houston River TMDL Model

FACILITY	CURRENT PERMIT LIMITS (BOD_5/NH_3-N), mg/L	POLICY PERMIT LIMITS ($CBOD_5$/NH_3-N), MONTHLY AVERAGE, mg/L
BIG OAKS RV PARK LAG530081	45/none (weekly average)	30/policy
DEQUINCY MIDDLE SCH, CALCASIEU PAR SCH BD, LAG540207	30/none (monthly average)	30/policy
PIERCE ACRES MOBILE HOME PARK LAG540561	30/none (monthly average)	30/policy
WESTERN GARDEN APT, CALHOUN PROPERTY MGMT INC LAG540855	30/none (monthly average)	30/policy

031201

EPA's TMDL for Mercury

http://www.epa.gov/region6/water/ecopro/latmdl/coastalcalchg(f).pdf

LAKE PONTCHARTRAIN BASIN

TMDLs/WLAs

EPA's Hg TMDL for Coastal Waters of Lake Pontchartrain Basin

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

040501

Joseph's Branch

City of Greensburg	0.11 MGD	10 $CBOD_5$/2 NH_3-N (Summer/May-October)
		Secondary (Winter/November-April)

MERMENTAU RIVER BASIN

TMDLs/WLAs

BOD and Nutrients TMDLs
For
Mermentau River Basin Subsegments

050101 Bayou des Cannes
http://www.epa.gov/region6/water/ecopro/latmdl/bayoudesnutrients_f.pdf

050103 Bayou Mallet for BOD, Nutrients, and Ammonia
http://www.epa.gov/region6/water/ecopro/latmdl/ftnmallet.pdf

050201 Bayou Plaquemine Brule for Ammonia
http://www.epa.gov/region6/water/ecopro/latmdl/bayouplaqueminebrule_nh3_f.pdf

050301 Bayou Nezpique
http://www.epa.gov/region6/water/ecopro/latmdl/bayouneznutrients_f.pdf

050401 Mermentau River for Ammonia
http://www.epa.gov/region6/water/ecopro/latmdl/mermentau_nh3_f.pdf

050402, 050602, 050701, 050702 Lake Arthur, Grand Lake, GIWW
http://www.epa.gov/region6/water/ecopro/latmdl/ftnlakearthur.pdf

050603 Bayou Chene for BOD
http://www.epa.gov/region6/water/ecopro/latmdl/ftnchene.pdf

050802, 050901 Big Constance Lake and Mermentau Basin Coastal Waters
http://www.epa.gov/region6/water/ecopro/latmdl/ftnbigconstance.pdf

Fecal Coliform TMDLs
For
Mermentau River Basin Subsegments

050101 Bayou des Cannes
http://www.epa.gov/region6/water/ecopro/latmdl/bayoudescannesfecal_f.pdf

050102 Bayou Joe Marcel
http://www.epa.gov/region6/water/ecopro/latmdl/joemarcelfecal.pdf

050201 Bayou Plaquemine Brule
http://www.epa.gov/region6/water/ecopro/latmdl/bayouplaqueminebrulefecal_f.pdf

050301 Bayou Nezpique
050303 Bayou Castor
http://www.epa.gov/region6/water/ecopro/latmdl/bayounezpiquecastorfecal_f.pdf

Turbidity, TSS, TDS, Cl TMDLs
For
Mermentau River Basin Subsegments

Mermentau River Basin

http://www.epa.gov/region6/water/ecopro/latmdl/mermentautss_f.pdf

Subsegments

050101
050102
050103
050201
050301
050302
050402
050501
050602
050701
050702
050703
050901

050501 Bayou Queue de Tortue

http://www.epa.gov/region6/water/ecopro/latmdl/bayouqueuedetortueturbidity_f.pdf

050703 White Lake

http://www.epa.gov/region6/water/ecopro/latmdl/whitelaketds_f.pdf

http://www.epa.gov/region6/water/ecopro/latmdl/whitelakechloride_f.pdf

Mercury TMDL
For
Mermentau River Basin

Mermentau River Basin

http://www.epa.gov/region6/water/ecopro/latmdl/mercurytmdls_f.pdf

Subsegments

050101
050201
050702
050901
060203
061201

Pesticides TMDLs
For
Mermentau River Basin

Fipronil http://www.epa.gov/region6/water/ecopro/latmdl/fipronil_merm(f).pdf

Subsegments
050101
050201
050401
050501
050603

Carbofuran http://www.epa.gov/region6/water/ecopro/latmdl/carbofuran_mermvt(f).pdf

Subsegments
050101
050701
050702
050901
060901
060205
060207
060301
060401
060701
060801
060802
060803
060902
060903
060904
060906
060907
060910
060911
061101
061102

TMDL for BOD
Bayou des Cannes
050101, 050103, 050201

Total Maximum Daily Load (Sum of CBOD, NH3N, and SOD) for Bayou des Cannes

ALLOCATION	SUMMER (MAR-NOV) (lbs/day)	WINTER (DEC-FEB) (lbs/day)
Point Source WLA	228	228
Point Source Reserve MOS	57	57
Headwater/Tributary Loads	2,027	5,577
Benthic Loads	14,324	14,324
TMDL	16,636	20,186

Town of Iota (Summer/Mar-Nov) 10 mg/L $CBOD_5$/10 mg/L NH_3-N + post reaeration

10 mg/L $CBOD_5$/10 mg/L NH_3-N/2 mg/L DO (Winter/Dec-Feb)

TMDL for BOD
Bayou Plaquemine Brule and Tributaries
050201

Facility	Flow (mgd)	Permit limitations (BOD_5/NH_3-N/DO) Summer	Permit limitations (BOD_5/NH_3-N/DO) Winter	Projected limits (BOD_5/NH_3-N/DO) Summer	Projected limits (BOD_5/NH_3-N/DO) Winter
Church Point POTW	0.80	10/2/6	10/10/6	10/2/5	20/10/6
Atwood Acres STP	.046	20/-/-	---	10/5/5	30/15/6
Acadian Fine Foods STP	.025	20/-/-	---	20/10/2	30/15/2
North Rayne POTW	.020	20/-/-	---	20/10/2	30/15/2
Crowley High School POTW	.034	30/-/-	---	10/5/5	30/15/6
Crowley POTW	2.47	5/2/5	10/2/5	5/5/5	10/5/6
Rayne POTW	1.50	10/-/-	---	10/5/5	10/5/6
Estherwood POTW	.080	10/-/-	---	10/10/2	30/15/2

Total Maximum Daily Load (Sum of CBOD, NH3N, and SOD) for Bayou Plaquemine Brule

Point source allocations (WLA)	Summer season (Mar – Nov) Load	Summer season (Mar – Nov) % of TMDL	Winter season (Dec – Feb) Load	Winter season (Dec – Feb) % of TMDL
Church Point POTW	211 lbs/day		594 lbs/day	
Atwood Acres STP	17.1 lbs/day		51.3 lbs/day	
Acadian Fine Foods STP	18.6 lbs/day		28.0 lbs/day	
North Rayne POTW	25.6 lbs/day		38.4 lbs/day	
Crowley High School POTW	8.9 lbs/day		26.7 lbs/day	
Crowley POTW	680 lbs/day		917 lbs/day	
Rayne POTW	557 lbs/day		557 lbs/day	
Estherwood POTW	22.1 lbs/day		44.7 lbs/day	
Total point source allocations (WLA)	1540 lbs/day	7.3	2256 lbs/day	10.5
Point source margin of safety (MOS)	385 lbs/day	1.8	564 lbs/day	2.6
Nonpoint allocation (LA)	19303 lbs/day	90.9	18701 lbs/day	86.9
Reduction of man-made nonpoint	50 %		50 %	
Nonpoint source margin of safety (MOS)	0 %		0 %	
Total maximum daily load (TMDL)	21227 lbs/day		21522 lbs/day	

TMDL for BOD
Bayou Nezpique and Tributaries
050301, 050302, 050303, 050304

PERMIT NO.	FACILITY	CURRENT FLOW, MGD	CURRENT LIMITS, mg/l	MODELED FLOW, MGD	SUMMER PROJECTION LIMITS, mg/l	WINTER PROJECTION LIMITS, mg/l
LA0033430	OAKDALE, CITY OF (WWTP)	1.46	10BOD5/15TSS	1.83	10BOD5/10NH3/6DO	10BOD5/10NH3/5DO
LA0079057	PINE PRAIRIE, VILLAGE OF (STP)	0.1	10BOD5/15TSS	0.13	10BOD5/10NH3/6DO	10BOD5/10NH3/5DO
LA0109452	REDDELL STP	0.068	10BOD5/15TSS/5NH3/5DO-SUMMER 20BOD5/15TSS/10NH3/5DO-WINTER	0.084	5BOD5/5NH3/6DO	10BOD5/5NH3/5DO
LAG560049	EVANGELINE SEWER CO INC	0.0364	20BOD5/20TSS	0.05	10BOD5/5NH3/6DO	20BOD5/10NH3/5DO
LA0020125	MAMOU, TOWN OF (WWTP)	0.6	10BOD5/15TSS/2NH3/5DO	0.75	10BOD5/2NH3/5DO	10BOD5/2NH3/5DO
LA0020087	OBERLIN, TOWN OF (STP)	0.363	10BOD5/15TSS	0.45	5BOD5/2NH3/6DO	10BOD5/10NH3/5DO
LA0061719	ELTON, TOWN OF (WWTP)	0.193	10BOD5/15TSS	0.24	5BOD5/2NH3/6DO	10BOD5/10NH3/5DO
LA0044865	BASILE WWTP	0.5	10BOD5/15TSS	0.63	5BOD5/2NH3/6DO	10BOD5/7.5NH3/5DO
LA0041769	JENNINGS, CITY OF (STP)	2.5	10BOD5/15TSS	3.13	5BOD5/2NH3/6DO	5BOD5/5NH3/6DO

Total Maximum Daily Load (Sum of CBOD, NH3N, and SOD) for Bayou Nezpique

ALLOCATION	SUMMER (MAR-NOV) (lbs/day)	WINTER (DEC-FEB) (lbs/day)
Point Source WLA	1,646.13	2294.95
Point Source Reserve MOS	411.53	573.75
Natural Nonpoint Source LA	12,394.65	9,446.57
Natural Nonpoint Source Reserve MOS	3,098.66	2,361.64
Manmade Nonpoint Source LA	959.80	1,011.28
Manmade Nonpoint Source Reserve MOS	239.95	252.82
TMDL	18,750.73	15,940.97

TMDL for BOD
Mermentau River
050401

Facility Discharge Limits

PERMIT NO.	FACILITY	CURRENT FLOW, MGD	CURRENT LIMITS, mg/l	MODELED FLOW, MGD	SUMMER PROJECTION LIMITS, mg/l	WINTER PROJECTION LIMITS, mg/l
	Village of Mermentau	0.085	10BOD5/15TSS	0.106	10BOD5/10NH3	10BOD5/10NH3
	BCI LA / Shepherd Oil ethanol plant	1.4	20BOD5/30TSS	1.75	10BOD5/10NH3	20BOD5/10NH3

Total Maximum Daily Load for Mermentau River

ALLOCATION	SUMMER (MAR-NOV) (lbs/day)	WINTER (DEC-FEB) (lbs/day)
Point Source WLA	817	1085
Point Source Reserve MOS	204	271
Natural/Manmade Nonpoint Source LA	37,702	35,981
Headwater/Tributary Source LA	2188	5412
TMDL = WLA + LA + MOS	40,910	42,749

TMDL for BOD

050501

Bayou Queue de Tortue

City of Duson 0.190 MGD 10 $CBOD_5$/5 NH_3-N/6 DO (Summer/Mar-Nov)

30 $CBOD_5$/15 NH_3-N/5 DO (Winter/Dec-Feb)

TMDL for Bayou Queue de Tortue

	Summer season (Mar – Nov)		Winter season (Dec – Feb)	
Point source allocations (WLA)	Load (lbs./day)	% of TMDL	Load (lbs./day)	% of TMDL
Total point source allocations (WLA)	79.8	0.16	239.5	0.63
Point source margin of safety (MOS)	20.0	0.04	59.9	0.16
Headwater/Tributary Loads	4.5	0.009	45.0	0.12
Benthic Loads	48,339.9	99.8	37,857.3	99.10
Reduction of man-made nonpoint	60 %		60 %	
Nonpoint source margin of safety (MOS)	0 %		0 %	
Total maximum daily load (TMDL)	48,444	100.0	38,202	100.0

TMDL for BOD
Bayou Lacassine
050601

Facility Discharge Limits

Town of Welsh	10 $CBOD_5$/2 NH_3-N/5 DO (Summer/ Mar-Nov) 10 $CBOD_5$/15 NH_3-N/2 DO (Winter/Dec-Feb)
Lacassine Syrup Mill *	
Winter Season Limits:	CBOD5 (maximum) 10.0 mg/l Dissolved Oxygen (minimum) 5.0mg/L Monitor dissolved oxygen in receiving Stream
Summer Season Limits:	CBOD5 (maximum) 5.0 mg/l Dissolved Oxygen (minimum) 5.0mg/L 22% Reduction of nonpoint source load Monitor dissolved oxygen in receiving Stream

* These effluent limitations are. contingent upon the 22% reduction of man-made nonpoint source loading. Best management practices must be implemented to achieve a 22% reduction of man-made nonpoint loading in the West Bayou Lacassine watershed. Compliance with the required nonpoint reduction will be verified by monitoring dissolved oxygen (in-stream) year-round for compliance with the criteria in the tributary at Abell Road and in both the tributary and West Bayou Lacassine at Ardoin Cove Road.

VERMILION-TECHE RIVER BASIN

TMDLS/WLAS

060102 Cocodrie Lake for Cl, SO_4, TDS

http://www.epa.gov/region6/water/ecopro/latmdl/cocodrielk_cl_sulf_tds_f.pdf

060201, 060202 Bayou Cocodrie for TDS

http://www.epa.gov/region6/water/ecopro/latmdl/bayoucocodrietds_201-202_f.pdf

TMDL for BOD and Nutrients
Bayou Cocodrie/Cocodrie Lake/Chicot Lake
060201, 060202, 060101, 060102, 060203

Facility Discharge Limits

Facility	Flow (mgd)	Projected limits (BOD_5/NH_3-N /DO) Summer	Winter
City of Glenmora WWTP	0.30	10/15	10/15
Village of Forest Hill WWTP	0.08	10/15	10/15
CLECO Coughlin Power Station	118	2.7/0	2.7/0.09
Chicot State Park	0.01	30/15	30/15
Plaquemines Alligator Farm	0.10	10/5	10/50

060102 Cocodrie Lake for Ammonia

http://www.epa.gov/region6/water/ecopro/latmdl/cocodrielk_nh3_nap_f.pdf

060201 TMDL for Copper Bayou Cocodrie

4th Revision, December 6, 2007, developed by LDEQ:
http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/12062007CocodrieTMDLcopperrevised12-06-2007.pdf

A mass balance model was developed which addresses the headwater conditions, the CLECO outfalls from Mountain Bayou Lake and the CLECO cooling water intake on Bayou Cocodrie. The model was based on maintaining the copper criterion at the downstream from the cooling water intake. Since the CLECO plant is a merchant peak power plant with a wide variety of flows, an effluent discharge flow-based equation was developed to determine the permissible loading from CLECO.

CLECO Effluent Load in lbs/day = 0.0158*(CLECO flow in MGD) + 0.5108

Table 1. Total Maximum Daily Load of Dissolved Copper at CLECO Total Discharge Flow = 350 MGD

ALLOCATION		
	% Reduction Required	TMDL lbs/day
Point Source WLA	0	6.06
Point Source Reserve MOS =50%		6.06
Nonpoint Source LA	0	0.06
Nonpoint Source Reserve MOS (not used)		0
TMDL		12.18

060202 Bayou Cocodrie for Nutrients

http://www.epa.gov/region6/water/ecopro/latmdl/bayoucoconutrients_f.pdf

060203 Chicot Lake for Nutrients

http://www.epa.gov/region6/water/ecopro/latmdl/chicotnutrients_f.pdf

TMDL for BOD
Bayou Courtableau
060204

Loads	Summer season (May- Oct) Load (lbs/day)	% of TMDL	Winter season (Nov - Apr) Load (lbs/day)	% of TMDL
Headwater/Tributary Loads	6,374	21	9,095	28
Benthic Loads	23,369	79	23,369	72
Reduction of man-made nonpoint	30%		30%	
Nonpoint source margin of safety (MOS)	0		0	
Total maximum daily load (TMDL)	29,743	100	32,464	100

TMDL for Ammonia
Bayou Courtableau
060204

http://www.epa.gov/region6/water/ecopro/latmdl/bayoucourtableau_nh3_f.pdf

TMDL for Salinity, TDS
Bayou Teche
060205

http://www.epa.gov/region6/water/ecopro/latmdl/techetds_f.pdf

Fecal Coliform TMDLs
For
Vermilion-Teche River Basin Subsegments

060205 Bayou Teche

http://www.epa.gov/region6/water/ecopro/latmdl/bayoutechefecal_f.pdf

060208 Bayou Boeuf

http://www.epa.gov/region6/water/ecopro/latmdl/bayouboeuffecal_f.pdf

060801, 060802 Vermilion River

http://www.epa.gov/region6/water/ecopro/latmdl/vermilionfecal_f.pdf

Turbidity, TSS, TDS, Cl, SO_4 TMDLs
For
Vermilion-Teche River Basin Subsegments

TMDL for Total Suspended Solids (TSS), Turbidity, and Siltation in the Vermilion River Basin

http://www.epa.gov/region6/water/ecopro/latmdl/vermiliontss_f.pdf

Subsegments

060801
060802
060803
060804
060901
060902
060903
060904
060905
060909
060910
060911
061101
061102
061103

TMDL for TSS, Turbidity, and Siltation for the Bayou Teche Watershed

http://www.epa.gov/region6/water/ecopro/latmdl/techetss_f.pdf

Subsegments

060101
060102
060201
060202
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060204
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060301
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060501
060207
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060210
060211
060212
060601
060701
060702
060703
060906
060907

TMDL for BOD
Bayou Teche
060205, 060301, 060401

Permit Limits for facilities discharging to Bayou Teche (to meet DO criterion of 5 mg/L):

FACILITY	**CURRENT PERMIT LIMITS ($CBOD_5$/NH_3-N/DO), mg/L**	**PROPOSED PERMIT LIMITS ($CBOD_5$/NH_3-N/DO), mg/L**
Port Barre, Town of; Port Barre Wastewater Treatment Plant	10/*/*	10/10/2
St. Landry Parish Sewer District #1, Linwood Subdivision	10/*/*	10/10/2
CBS Enterprises, CBS Mobile Home Park (east pond)	30/*/*	30/15/2
St. Landry Parish School Board, Leonville High School	30/*/*	30/15/2
St. Martin Parish School Board, Teche Elementary School	30/*/*	30/15/2
Acadiana Treatment Sys Inc, Magenta Plantation Townhomes Subdivision	45/*/*	45/15/2
Dallas Trailer Park	45/*/*	45/15/2
LA Sugar Cane Coop Inc, Breaux Bridge Branch	*/*/*	0/0/2 (once-through non-contact cooling water)
Bent Oak Trailer Park	30/*/*	30/15/2
St. Martin Parish Police Jury, St.Martinville Industrial Park Wastewater Treatment Plant	10/*/*	5/2/2
Loreauville, Village of	10/*/*	10/10/2
Breaux's Bay Craft Inc	45/*/*	45/15/2
Iberia Parish Sewerage Dist #1, Breaux Estates Subdivision	30/*/*	30/15/2
Cajun Sugar Coop., Inc.; Cajun Sugar Factory	15/*/* (calculated from mass limit)	5/0/5 (Sugar mills are not a source of ammonia)

TMDL for BOD
Bayou Teche
060205, 060301, 060401

Permit Limits for facilities discharging to Bayou Teche (to meet DO criterion of 5 mg/L)(continued):

Louisiana Water Co.-New Iberia Water Treatment Plant	*/*/*	2/1/2
Iberia Sugar Coop., Inc.	Outfall 004: 18/*/* (calculated from mass limit) Outfall 006: */*/*	18/0/2 (Sugar mills are not a source of ammonia) 0/0/2 (once-through non-contact cooling water)
Bayou Side Trailer Park	45/*/*	45/15/2
Mosquito Control Contractors Inc. (MCCI)	45/*/*	45/15/2
Iberia Parish Sewer District #1 POTW		10 CBOD5/5 NH3-N/2 mg/L DO
Iberia Parish Government, Rosedale Subdivision	30/*/*	30/15/2
Iberia Parish School Board, Jeanerette Sr. High School	30/*/*	30/15/2
Yellow Bowl Restaurant	45/*/*	45/15/2
Cypress Bayou Casino	10/*/*	10/10/2

*Currently not permitted for this parameter

TMDL for BOD
Bayou Teche
060205, 060301, 060401

Calculation of the TMDL, Winter, 5 mg/L DO			
Load description	WLA (lbs/day)	LA (lbs/day)	Reserve/ MOS Load (lbs/day)
Point Source loads	3,157		789
Headwater / Tributary loads		23,922	
Benthic loads		5,314	
SUB-TOTAL	**3,157**	**29,236**	**789**
TMDL = WLA + LA + MOS		***33,183***	

Calculation of the TMDL, Summer, 5 mg/L DO			
Load description	WLA (lbs/day)	LA (lbs/day)	Reserve/ MOS Load (lbs/day)
Point Source loads	1,624		406
Headwater / Tributary loads		25,100	
Benthic loads		9,441	
SUB-TOTAL	**1,624**	**34,541**	**406**
TMDL = WLA + LA + MOS		***36,572***	

Temperature TMDL
For
Vermilion-Teche River Basin Subsegments

060206 Indian Creek and Indian Creek Reservoir
http://www.epa.gov/region6/water/ecopro/latmdl/indiancreektemp_f.pdf

TMDL for BOD
Bayou Boeuf
060208

http://www.epa.gov/region6/water/ecopro/latmdl/bayouboeufnutrient.pdf

BOD and Nutrients TMDLs
For
Vermilion-Teche River Basin Subsegments

060209 Irish Ditch/Big Bayou
http://www.epa.gov/region6/water/ecopro/latmdl/ftnirishditch.pdf

060210 Bayou Carron
http://www.epa.gov/region6/water/ecopro/latmdl/ftncarron.pdf

060212, 060207 Chatlin Lake Canal/Bayou du Lac and Bayou des Glaises Diversion Channel
http://www.epa.gov/region6/water/ecopro/latmdl/ftnchatlin.pdf

060211 West Atchafalaya Borrow Pit Canal
http://www.epa.gov/region6/water/ecopro/latmdl/ftnborrowpit.pdf

060601, 061001 Charenton Drainage Canal and West Cote Blanche Bay
http://www.epa.gov/region6/water/ecopro/latmdl/ftncharenton.pdf

060701 Tete Bayou
http://www.epa.gov/region6/water/ecopro/latmdl/ftntete.pdf

060703 Bayou du Portage
http://www.epa.gov/region6/water/ecopro/latmdl/ftnduportage.pdf

060803 Vermilion River Cutoff
http://www.epa.gov/region6/water/ecopro/latmdl/ftnvermcutoff.pdf

060901 Bayou Petite Anse
http://www.epa.gov/region6/water/ecopro/latmdl/ftnpetiteanse.pdf

060903 Bayou Tigre
http://www.epa.gov/region6/water/ecopro/latmdl/ftntigre.pdf

060904 New Iberia Southern Drainage Canal
http://www.epa.gov/region6/water/ecopro/latmdl/ftnnewiberia.pdf

060907 Franklin Canal
http://www.epa.gov/region6/water/ecopro/latmdl/ftnfranklin.pdf

060908 Spanish Lake
http://www.epa.gov/region6/water/ecopro/latmdl/ftnspanishlake.pdf

060909 Lake Peigneur
http://www.epa.gov/region6/water/ecopro/latmdl/ftnlakepeigneur.pdf

060911 Dugas Canal

http://www.epa.gov/region6/water/ecopro/latmdl/ftndugas.pdf

061103 Freshwater Bayou Canal

http://www.epa.gov/region6/water/ecopro/latmdl/ftnfreshwaterbayou.pdf

TMDL for BOD
Lake Fausse Pointe/Lake Dauterive
060702

Total Maximum Daily Load (Sum of CBOD, NH_3N, and SOD).

Source	Summer (kg/day)	Summer (lbs/day)	Winter (kg/day)	Winter (lbs/day)
Fausse Pointe State Park WWTP	6.9	15.1	6.9	15.1
City of New Iberia WWTP	1,477.0	3,256.2	1,477.0	3,256.2
St. Mary Sugar Coop	99.4	219.1	99.4	219.1
Total Point Source allocations (WLA)	1,583.2	3,490.4	1,583.2	3,490.4
Point Source MOS	395.8	872.6	395.8	872.6
Natural Nonpoint Source LA	59,438.3	131,038.9	31,892.2	70,310.4
Natural Nonpoint Source MOS	0.0	0.0	0.0	0.0
Manmade Nonpoint Source LA	195,756.4	431,569.0	195,808.8	431,684.6
Manmade Nonpoint Source MOS	48,939.1	107,892.3	48,952.2	107,921.2
TMDL	306,112.7	674,863.2	278,632.3	614,279.1

Current point source discharge limits can be maintained as follows:

PERMIT NO.	FACILITY	CURRENT FLOW (MGD)	CURRENT LIMITS (mg/L)	MODELED FLOW (MGD)	SUMMER PROJECTION LIMITS (mg/L)	WINTER PROJECTION LIMITS (mg/L)

LAG540415	Lake Fausse Pointe State Park	0.01	30 BOD/ 30 TSS	0.0125	Same	Same
LA0065251	City of New Iberia	2.5	10 BOD/ 15 TSS	3.125	Same	Same
LA0005410	St. Mary Sugar Cooperative	1.4	15 BOD/ 50 TSS	1.75	Same	Same

TMDL for BOD
Vermilion River
060801

http://www.epa.gov/region6/water/ecopro/latmdl/vermilionriverdonitrogen_f.pdf

060904

Rodere Canal

WLA for Proposed New Iberia STP

New Iberia STP (New Admiral Doyle Plant)

Projected Flow: 6.0 MGD

Receiving Stream: Rodere Canal

Summer Limitations: 10 mg/L CBOD / 2 mg/L NH_3-N/ 3 mg/L DO

Winter Limitations: 10 mg/L CBOD/10 mg/L NH_3-N/ 3 mg/L DO

Vermilion-Teche River Basin

Pesticide (Carbofuran) TMDL

http://www.epa.gov/earth1r6/6wq/ecopro/latmdl/carbofuran_mermvt(f).pdf

Subsegments

050101
050701
050702
050901
060901
060205
060207
060301
060401
060701
060801
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060904
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060907
060910
060911
061101
061102

061201

Vermilion-Teche River Basin Coastal Waters

EPA's Hg TMDL

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

MISSISSIPPI RIVER BASIN

TMDLs/WLAs

070501

Bayou Fountain

City of St. Francisville (Summer/May-Oct)	0.3 MGD	20 $CBOD_5$/10 NH_3-N/5 DO
		30 BOD_5/5 DO (Winter/Nov-April)

070601

EPA's Hg TMDL for Coastal and Gulf Waters

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

OUACHITA RIVER BASIN

TMDLs/WLAs

TMDLs for Toxic Pollutants
For
Ouachita River Basin Subsegments

080101 Ouachita River for Mercury
http://www.epa.gov/region6/water/ecopro/latmdl/ouarmercury(f).pdf

080901, 080903, 081001, 081002, 081201 for Selected Pesticides
http://www.epa.gov/region6/water/ecopro/latmdl/ouapesticides(f).pdf

080904, 080912 for Dioxin
http://www.epa.gov/region6/water/ecopro/latmdl/ouadioxin(f).pdf

080101

Ouachita River

TMDL for BOD

Summer Allocations and TMDLs

PARAMETER	WLA (lbs/day)	LA (lbs/day)	MOS (lbs/day)	TMDL (lbs/day)
UCBOD	17,821	107,719	16,424	141,964
ORG-N	6,769	22,901	4,237	33,907
NH_3-N	2,841	676	785	4,302
SOD	0	5.0	0.6	5.6
TOTAL	27,430	131,301	21,447	180,177

Winter Allocations and TMDLs

PARAMETER	WLA (lbs/day)	LA (lbs/day)	MOS (lbs/day)	TMDL (lbs/day)
UCBOD	21,228.8	139,056.8	20,621.4	180,906.9
ORG-N	7,305.8	27,779.3	4,891.5	39,976.6
NH_3-N	3,110.8	765.2	851.9	4,727.8
SOD	0	2.8	0.3	3.1
TOTAL	31,645.3	167,604.0	26,365.1	225,614.4

Dischargers in subsegment 080101 are listed on the following page..

Ouachita River Dischargers

Dischargers					Permit limits		
Facility	Outfall no.	Permit no.	Outfall ORM	Design flow (mgd)	Temp (^oF)	$CBOD_5$	NH_3-N
Ouachita Power	001,002	LA0112780	192.90	2.324	99		
Entergy Sterlington	001,002	LA0007579	192.46	159	112		
Town of Sterlington POTW	001	LA0046809	191.81	0.225	30	30 mg/L	
Koch Nitrogen	001	LA0094846	191.36	2.49			342 lb/d
Angus Chemical	002	LA0007854	189.24	0.75		288 lb/d	
Entergy Monroe	001,002	LA0007765	169.29	116	106		
Graphic Packaging International*	001	LA0007617	160.91	31.72		Hydrograph Limited[1]	
West Monroe POTW	*	LA0043982		6.87		30 mg/L	
City of Monroe POTW	001	LA0038741	159.56	12.0		10 mg/L	2 mg/l

1. Calculated from the 7-day running average of the Ouachita River flow in cfs.

The calculated daily maximum allocations are, for summer season and the current production rate;

For Q ≤ 802 cfs, daily maximum BOD_5 = 4,532 lbs/day
For 802 cfs ≤ Q ≤ 5,200 cfs, daily maximum BOD_5 = 5.73124Q – 64
For Q ≥ 5,200 cfs, daily maximum BOD_5 = 0.63Q + 26,462

for the summer season and the requested increase in production;

For Q ≤ 802 cfs, daily maximum BOD_5 = 4,532 lbs/day
For 802 cfs ≤ Q ≤ 5,800 cfs, daily maximum BOD_5 = 6.82573Q – 942
For Q ≥ 5,800 cfs, daily maximum BOD_5 = 0.63Q + 34,993

for the winter season and the current production rate;

For Q ≤ 1231 cfs, daily maximum BOD_5 = 6,991 lbs/day

For 1231 cfs ≤ Q ≤ 5,200 cfs, daily maximum BOD_5 = 5.73124Q – 64

For Q ≥ 5,800 cfs, daily maximum BOD_5 = 0.63Q + 26,462

and for the winter season and the requested increase in production;

For Q ≤ 1231 cfs, daily maximum BOD_5 = 7,460 lbs/day

For 1231 cfs ≤ Q ≤ 5,800 cfs, daily maximum BOD_5 = 6.82573Q – 942

For Q ≥ 5,800 cfs, daily maximum BOD_5 = 0.63Q + 34,993

080102

Bayou Chauvin

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NH_3-N, and SOD) for Bayou Chauvin, 080102

Allocation	Summer (May-Oct)		Winter (Nov-Apr)	
	Kgm/day	Lbs/day	Kgm/day	Lbs/day
Point Source WLA	210	463	584	1288
Point Source Reserve MOS	53	117	146	322
Natural Nonpoint Source LA	97	214	67	148
Natural Nonpoint Source Reserve MOS	0	0	0	0
Manmade Nonpoint Source LA	53	117	100	221
Manmade Nonpoint Source Reserve MOS	15	33	25	55
TMDL	428	944	922	2034

Benthic Load Reductions and Wasteload Allocations/Effluent Limitations Table 1. Benthic Load Reductions and Wasteload Allocations

Model reach	Percent summer reduction of man-made benthic load	Percent winter reduction of man-made benthic load	Facility name	WLA as CBOD5/NH3-N/DO	
				Summer	Winter
1	100	60			
2	100	60			
4	100	60			
5	80	60			
6	80	60	Leisure Village	16/8/5	Secondary
7	80	60	Oakwood Pond #2	8/4/5	20/10/5
8	80	60			
10	80	60			
11	80	60			
13	80	60	North Monroe SD #1	Secondary	Secondary
14	0	0			
16	0	0			
18	0	0			

Model	Percent	Percent	Facility name	WLA as CBOD5/NH3-N/DO

reach	summer reduction of man-made benthic load	winter reduction of man-made benthic load		Summer	Winter
1	100	60			
2	100	60			
4	100	60			
5	80	60			
6	80	60	Leisure Village	16/8/5	Secondary
7	80	60	Oakwood Pond #2	8/4/5	20/10/5
8	80	60			
10	80	60			
11	80	60			
13	80	60	North Monroe SD #1	Secondary	Secondary
14	0	0			
16	0	0			
18	0	0			

Bayou Chauvin TMDL
For Noxious Aquatic Plants

Subsegment 080102

http://www.epa.gov/region6/water/ecopro/latmdl/napchauvin(f).pdf

080603

Bayou D'Arbonne

TMDL for BOD

TMDL for Bayou D'Arbonne (Sum of CBOD, Organic N, Ammonia N, and SOD)

	Summer (July-Sept)		Winter (Oct-June)	
	Reduction	**Load (kg/day)**	**Reduction**	**Load (kg/day)**
Point Source WLA	none	25	none	46
Point Source Reserve MOS (20%)	--	6	--	11
Natural Nonpoint Source LA	0%	401	0%	971
Natural Nonpoint Source MOS (0%)	--	0	--	0
Man-made Nonpoint Source LA	95%	13	85%	132
Man-made Nonpoint Source MOS (20%)	--	5	--	35
TMDL	--	450	--	1195

Dischargers:

City of Dubach (West Pond)
Advanced Treatment

080609

Corney Bayou

TMDL for BOD

TMDL for Corney Bayou (Sum of CBOD, Organic N, Ammonia N, and SOD)

	Summer (July-Sept)		Winter (Oct-June)	
	Reduction	**Load (kg/day)**	**Reduction**	**Load (kg/day)**
Point Source WLA	None	17	None	17
Point Source Reserve MOS (20%)	--	4	--	4
Natural Nonpoint Source LA	0% - 50%	3972	0%	4066
Natural Nonpoint Source MOS (0%)	--	0	--	0
Man-made Nonpoint Source LA	75% - 100%	1524	60% - 80%	2456
Man-made Nonpoint Source MOS (20%)	--	381	--	619
TMDL	--	5898	--	7162

080610

Middle Fork Bayou D'Arbonne

TMDL for BOD

TMDL for Middle Fork for summer DO standard (Sum of CBOD, Organic N, Ammonia N, and SOD)

	Summer (July-Sept)	
	Reduction	**Load (kg/day)**
Point Source WLA	Upgrade 2 facilities to advanced treatment	262
Point Source Reserve MOS (20%)	--	65
Natural Nonpoint Source LA	0%	1902
Natural Nonpoint Source MOS (0%)	--	0
Man-made Nonpoint Source LA	70%	367
Man-made Nonpoint Source MOS (20%)	--	93
TMDL	--	2689

Dischargers:

City of Bernice
Upgrade to Advanced Treatment

David Wade Correctional Center
Outfall 003
Upgrade to Advanced Treatment

David Wade Correctional Center
Outfalls 001, 002
Advanced Treatment

City of Haynesville
Advanced Treatment

080901

Boeuf River

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NBOD, and SOD) for Boeuf River, 080901

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source WLAs		1790		1934
Point Source Reserve MOS @ 20%		447		483
Nonpoint Source LA	90% in Middle and Lower Sections	82971	20% in Middle Section	161907
Nonpoint Source Reserve MOS @ 10% of Man-Made	10	2358	10	24294
TMDL		87566		188618

Dischargers:

Town of Rayville
Upgrade from effluent limits of 10 mg/l BOD_5/5 mg/l NH_3N to effluent limits of 5 mg/l BOD_5/5 mg/l NH_3N

All other dischargers remain at their current permit limits.

080903

Big Creek

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NBOD, and SOD) for Big Creek, 080903
Current Standard: 5.0 mg/l Critical summer season (May - Oct)

TMDL component loads	BOD Loading (lbs/day)	% of TMDL
Headwater/Tributary Loads	33	0.13
Benthic Loads	22,317	89.73
Point Source Loads*	891	3.60
Margin Of Safety	1,634	6.54
Reduction of man-made nonpoint	35% - 75%	
Total maximum daily load (TMDL)	24,875	100

* Dischargers listed on following page.

080903

Big Creek

Dischargers Pt. Source / Facility Description and Reach #	Receiving Stream	Included in the Projection Model (Yes/No)	Anticipated/ design flow (cms)	Proposed Permit Limits	
				$CBOD_5$ (mg/l)	NH_3N (mg/l)
Mangham Wastewater Treatment Plant - LA0032115	Big Creek	Yes	0.0028	10.0	10.0
Allen Canning Company - Vegetable canning plant - LA000781 - Outfall 001 & 004	Unnamed drainage canal, thence into Deer Creek, thence into Little Hurricane Creek, thence into Colewa Bayou	No	0.0006573	30.0	15.0
Allen Canning Company - Vegetable canning plant - LA000781 - Outfall 002 & 003	Unnamed drainage canal, thence into Deer Creek, thence into Little Hurricane Creek, thence into Colewa Bayou	No	0.0153361	45.0	15.0
Oak Grove Wastewater Treatment Facility - LA0043648	Unnamed ditch, thence into Little Colewa Bayou, thence into Big Creek, Thence into Boeuf River	No	0.0131453	15.0	10.0
EPPS Compressor Station #66 - LA0007625	Unnamed highway ditch; thence into Big Colewa Creek; thence into Big Creek	No	0.0001315	45.0	15.0
Elysian Fields WWTP - LAG540290	Unnamed ditch, thence into Hwy 135 roadside ditch, thence into Little Creek, thence into Big Creek	No	0.0021909	45.0	15.0
Sugar Hill Community - LAG540138	Unnamed ditch, thence into Big Creek, thence into Bayou Boeuf	No	0.0009859	45.0	15.0
Bee Bayou Truck Stop - LA0111741	Unnamed ditch, thence into Cow Bayou, thence into Big Creek	No	0.0001315	45.0	15.0
Mangham Square Apartment - LAG540492	Unnamed ditch, thence into Buzzard Creek, thence into Big Creek	No	0.0009859	45.0	15.0
Branch Crossing STP - LAG530224	unnamed ditch, thence into Burns Bayou, thence into Bee Bayou.	No	0.0001928	45.0	15.0
LI Ready Mix Plant #27 - LAG110071	Unnamed ditch, thence into Little Creek, thence into Big Creek	No	0.0002191	45.0	15.0

080909

Crew Lake

TMDL for BOD

Total Maximum Daily Load (Sum of CBOD, NH_3-N, and SOD)

ALLOCATION	Annual	
	% Reduction Required	(Jan-Dec) (lbs/day)
Point Source WLA*	0	18
Point Source Reserve MOS	0	4
Natural Nonpoint Source LA	0	891
Natural Nonpoint Source Reserve MOS	0	0
Manmade Nonpoint Source LA	95	357
Manmade Nonpoint Source Reserve MOS	0	40
TMDL		1310

* A facility review was performed at the time this TMDL was developed. Most of the dischargers in this watershed are small and located on tributaries or ditches to the 303(d) listed waterbody. These were not included in the TMDL model. It is unlikely that they will have an impact on the targeted waterbody due to the small load and/or the distance from the waterbody named on the 303(d) lists. These dischargers are included in the TMDL load calculations using their current state policy based permit limits along with their anticipated flows. Thus, they can continue to be permitted based on the State effluent limitations policy.

080912

Tisdale Brake/Staulkinghead Creek

Town of Bastrop (Main Plant)	0.7 MGD	10 BOD_5/15 TSS/5 NH_3-N/5 DO
Town of Bastrop (West Pond)	0.4 MGD	20 BOD_5/20 TSS/10 NH_3-N/5 DO

081003

Deer Creek

Town of Wisner 0.2034 MGD 10 BOD_5/15 TSS/5 NH_3-N/5 DO

081501

Castor Creek

TMDL for BOD

TMDL to meet DO Standard of 5 mg/L	Summer season (May - Oct)		Winter season (Nov - Apr)	
	BOD Loading (lbs/day)	% of TMDL	BOD Loading (lbs/day)	% of TMDL
Total point source allocations (WLA)	0	0	0	0
	0	0	0	0
Point source margin of safety (MOS)	2	0.03	25	0.01
Headwater/Tributary Loads				
Benthic Loads	4,807	79.77	2,442	98.52
Incremental Loads	12	0.20	12	0.47
Nonpoint source margin of safety (MOS)	1,205	20.00	619	20.00
Total maximum daily load (TMDL)	6,026	100	3,098	100

Dischargers:

Several point sources fall within the Castor Creek subsegment. These facilities were deemed either intermittent stormwater or minor discharges on unnamed tributaries and were not included in this model. Limits for these small facilities are generally set by state policy or guidelines and can continue as such.

081504

Flat Creek

TMDL for BOD

Calculation of the TMDL for the current DO criterion of 5.0 mg/L year-round			
Load description	WLA (lbs/day) (oxygen-demanding pollutants)	LA (lbs/day) (oxygen-demanding pollutants)	Reserve/ MOS Load (lbs/day)
Point Source loads	22		6
Headwater / Tributary loads		10	
Benthic loads		2,171	0
SUB-TOTAL	**22**	**2,181**	**6**
TMDL = WLA + LA + MOS		***2,209***	

Dischargers:

Village of Sikes (LAG540647) discharges 20,000 gallons per day into a tributary of Flat Creek. The Village of Sikes will receive monthly average effluent limits of 30 mg/L BOD_5 and 15 mg/L NH_3-N (Statewide Sanitary Effluent Limitations Policy).

081608

Big Creek

Town of Dry Prong	0.14 MGD	10 $CBOD_5$/5 NH_3-N /6 DO (Summer/April-Oct) 10 $CBOD_5$/10 NH_3-N /6 DO (Winter/Nov-March)
Town of Pollock	0.108 MGD	30 BOD_5/15 NH_3-N (year-round)

BOD and Nutrients TMDLs
For
Ouachita River Basin Subsegments

080201 Ouachita River
http://www.epa.gov/region6/water/ecopro/latmdl/ouachitado(f).pdf

080302 Black River
http://www.epa.gov/region6/water/ecopro/latmdl/blackdo(f).pdf

080501 Bayou de L'Outre
http://www.epa.gov/region6/water/ecopro/latmdl/deloutredo(f).pdf

080607 Corney Bayou
http://www.epa.gov/region6/water/ecopro/latmdl/corneydo(f).pdf

080902 Bayou Bonne Idee
http://www.epa.gov/region6/water/ecopro/latmdl/bonneideedo(f).pdf

080904 Bayou Lafourche
http://www.epa.gov/region6/water/ecopro/latmdl/lafourchedo(f).pdf

080910 Clear Lake
http://www.epa.gov/region6/water/ecopro/latmdl/clearlakedo(f).pdf

081002 Joes Bayou
http://www.epa.gov/region6/water/ecopro/latmdl/joesdo(f).pdf

081201 Tensas River
http://www.epa.gov/region6/water/ecopro/latmdl/tensasdo(f).pdf

081202 Lake St. Joseph
http://www.epa.gov/region6/water/ecopro/latmdl/stjosephdo(f).pdf

Fecal Coliform TMDLs
For
Ouachita River Basin Subsegments

080102 Bayou Chauvin
http://www.epa.gov/region6/water/ecopro/latmdl/fcchauvin(f).pdf

080610 Middle Fork Bayou D'Arbonne
http://www.epa.gov/region6/water/ecopro/latmdl/fcmfbdarbonne(f).pdf

080905 Turkey Creek
http://www.epa.gov/region6/water/ecopro/latmdl/fcturkeycr(f).pdf

080910 Clear Lake
http://www.epa.gov/region6/water/ecopro/latmdl/fcclearlake(f).pdf

081001 Bayou Macon
http://www.epa.gov/region6/water/ecopro/latmdl/fcmacon(f).pdf

081602 Little River
http://www.epa.gov/region6/water/ecopro/latmdl/fclittler(f).pdf

Turbidity, TSS, TDS, Cl, SO_4 TMDLs
For
Ouachita River Basin Subsegments

Ouachita River Basin (13 subsegments) for TSS, Turbidity

http://www.epa.gov/region6/water/ecopro/latmdl/ouachitatss(f).pdf

080102
080202
080401
080901
080903
080904
080910
081001
081002
081201
081202
081601
081602

081501 Castor Creek for Cl, TDS/Salinity

http://www.epa.gov/region6/water/ecopro/latmdl/castorcl_tds(f).pdf

PEARL RIVER BASIN

TMDLs

TMDLs for DO (090105, 090204, 090207)
TMDL developed by Tetra Tech for EPA; dated 3/25/2008 and revised 9/10/2008.
http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/pearl_dotmdls_08f.pdf

TMDLs for Mercury (090101, 090102, 090103, 090105, 090106, 090107, 090201, 090202-05126, 090203, 090204, 090205, 090206, 090207, 090207-5112, and 090501)
TMDL developed by Tetra Tech for EPA; dated 9/17/2007.
http://www.epa.gov/regionhttp://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/12062007CocodrieTMDLcopperrevised12-06-2007.pdf6/water/npdes/tmdl/2008/louisiana/final/pearl_hgtmdls_08f.pdf

TMDLs for Fecal Coliform (090101, 090104, 090301, 090401, 090502, 090505, and 090506)
TMDL developed by FTN Associates for EPA; dated 3/31/2008.
http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/pearl_fctmdls_08f.pdf

TMDLs for Turbidity (090106, 090201, 090202, 090501)
TMDL developed by FTN Associates for EPA; dated 3/31/2008.
http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/pearl_turtmdls_08f.pdf

RED RIVER BASIN

TMDLs/WLAs

100101

Posey Branch

City of Coushatta	0.185 MGD	30 BOD_5/90 TSS/6 DO

100305

Mahlin Bayou/McCain Creek

Discharger	Design Flow (MGD)	Effluent Limits (BOD_5/TSS/NH_3-N/DO)
Caddo Sewer District #7	1.0	30/30/15/5
Town of Blanchard POTW	0.5	20/20/10/5
Hillside Mobile Home Park	0.0309	20/20 *
Country Aire MHP	0.0204	30/30 *
Northwood MHP	0.0168	30/30 *

* Based on the Statewide Sanitary Effluent Limitations Policy, ammonia (NH3) limitations are assumed to be one half the BOD_5 loading.

100402

Red Chute Bayou

Effluent Limits:

20 $CBOD_5$/10 NH_3-N/2 DO May-October
30 $CBOD_5$/15 NH_3-N/2 DO November-April

Discharger	Design Flow (MGD)
Dogwood North	0.175
East Highland	0.030
Espanita Forest	0.059
Dogwood South	0.299

100404 and 100405

TMDLs for DO in Cypress Bayou Reservoir and Black Bayou including Black Bayou Reservoir

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/3cypre_blk_dotmdlf.pdf

100406

TMDLs for DO and Nutrients in Flat River

Developed by FTN Associates for EPA; dated 3/24/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/6flat_donutf_tmdl.pdf

100501

TMDL for DO in Bayou Dorcheat

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/7dorcheat_dof_tmdl.pdf

TMDL for Mercury in Bayou Dorcheat

Developed by FTN Associates for EPA; dated 3/26/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/8dorcheat_hgf_tmdl.pdf

100601

TMDLs for DO and Nutrients in Bayou Pierre

Developed by FTN Associates for EPA; dated 3/21/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/9bpierre_donutf_tmdl.pdf

100602

TMDLs for DO and Nutrients in Boggy Bayou

Developed by FTN Associates for EPA; dated 3/24/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/10boggyb_donutf_tmdl.pdf

100605

Lake Edwards/Smithport Lake Watershed

TMDL for DO and Nutrients

Developed by LDEQ; dated 6/13/2007

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/Final_100605LakeEdwardsSmithportLakeTMDL_083107.pdf

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	86	0	415
Point Source Reserve MOS (20%)		22		104
Natural Nonpoint Source LA	40	2,953	40	2,650
Natural Nonpoint Source Reserve MOS (20%)		0		0
Manmade Nonpoint Source LA	100	0	100	0
Manmade Nonpoint Source Reserve MOS (20%)		0		0
TMDL		3,061		3,169

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

The results of the projection modeling for subsegment 100605 show that the water quality standard for dissolved oxygen can be maintained during the winter critical season with the same 100% reduction of man-made nonpoint source pollution and 40% reduction in natural background pollution. The minimum DO is 5.08 mg/l. Subsegment 100605 has a year round water quality standard for dissolved oxygen of 5.0 mg/l.

Lake Edwards/Smithport Lake Dischargers Subsegment 100605

FACILITY	AI NUM	FILE_NUM	OUTFALL_DESCRIPTION	FAC_TYPE	FLOW_PATH	EXPECTED FLOW, GPD	BOD, mg/L	Ammonia Limits	MODELING COMMENTS
FRIERSON PLAZA APARTMENTS, PTNRS.	18984	17933236; 32568315	Treated Sanitary Wastewater; Apartment Complex	Apartments	To Rambin Bayou thence to Clear Lake	9200	30	2	Too Far Away
TWIN CORNERS MOBILE HOME PARK	22119	18110484; 32567773	Treated sanitary wastewater from oxidation ponds; Mobile Home park	Mobile Home Park	an unnamed ditch thence to Brushy Bayou, thence to Rambin bayou, thence to Clear Lake	18600	30	2	Too Far Away
N DESOTO HIGH SCHOOL	41247	17972704; 32567599	Treated Sanitary Wastewater; School	Public School	an unnamed ditch thence to Brushy Bayou, thence to Rambin bayou, thence to Clear Lake	12000	30	2	Too Far Away
AJ WILLIAMS SUBDIVISION	18031	12226032; 12225951	Oxidation Pond; Subdivision	Subdivision	an unnamed ditch thence to Rambin Bayou thence to Clear Lake	4800	30	2	Too Far Away
BOBBY DYSON MOBILE HOME PARK	18028	17530012; 25135151	Treated sanitary wastewater from oxidation ponds; Mobile Home park	Mobile Home Park	an unnamed ditch thence to an unnamed creek thence to Brushy Bayou thence to Rsmbin Bayou thence to Clear Lake	22500	30	2	Too Far Away
Bridstone Apartments	18722	17856412; 32569997	Treated Sanitary Wastewater	Apartment Complex	PVC Pipe to Edwards Bayou then five miles to Rambin Bayou thence to Clear Lake	12000	30	2	Too Far Away
SOUTH STONEWALL MOBILE ESTATES, INC	18922	18059107; 34023134	Treated Sanitary Wastewater	Mobile Home Park	an unnamed ditch thence to Brushy Bayou, thence to Rambin bayou, thence to Clear Lake	16200	30	2	Too Far Away
AIRPORT TRAILER PARK	38639	17996087; 32569665	Treated sanitary wastewater from oxidation ponds; Mobile Home park	Mobile Home Park	Natural drainage thence to Elam Branch, thence to Bayou Na Bonchasse, thence to clear lake.	7500	30	2	Too Far Away
LI READY MIX PLANT 17	42106	31987320	Permit Canceled			-	-	-	Permit Canceled
MANSFIELD CITY OF (STP)	4677	34064589	Treated Sanitary Wastewater	STP	unnamed ditch thence to Na Bonchasse Bayou thence to Clear lake	750000	10		Modeled
BOBBY DYSON MOBILE HOME PARK	18030	17530106; 25170401	Treated Sanitary Wastewater	Mobile Home Park	an unnamed ditch, thence to Cypress Bayou, thence to Wallace Lake	4500	45		Too Far Away

BOD and Nutrients TMDL

100606

Bayou Pierre

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	March – November (lbs/day)	% Reduction Required	December-February (lbs/day)
Natural nonpoint source LA	30	8,198	30	7,312
Natural nonpoint source MOS		0		0
Manmade nonpoint source LA	100	0	100	0
Manmade nonpoint source MOS (20%)		0		0
TMDL		8,198		7,312

Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$

Bayou Pierre Dischargers, Subsegment 100606

		Current Expected Flow	Current Monthly Average Concentration Limits		TMDL Monthly Average Concentration Limits		TMDL Monthly Average Mass Limits	
Facility	**AI #**	**GPD**	**BOD_5/ $CBOD_5$, mg/L**	**NH_3-N, mg/L**	**BOD_5/ $CBOD_5$, mg/L**	**NH_3-N, mg/L**	**$CBOD_5$, lbs./day**	**NH_3-N, lbs./day**
International Paper: Bayou Pierre Woodyard	84371	479000	N/A	N/A	N/A	N/A	N/A	N/A
ConAgra Poultry: Robeline Truck Shop	10883	500	30	15	30	15	0.12521	0.0626
Robeline Sanitary Sewerage System	43068	36000	20	10	20	10	6.00984	3.00492
Bayou Pierre Alligator Farm Inc.	40736	4000	30	15	30	15	1.00164	0.50082
Oak Grove Apartments	19049	8800	30	15	30	15	2.20361	1.1018
DeSoto Parish Police Jury Mundy Sanitary Landfill	19803	17.4	N/A	N/A	N/A	N/A	N/A	N/A
Dolet Hills Lignite Company, LLC	11541	Intermittent	30	15	30	15	N/A	N/A

100702, 100703, 100803

TMDLs for DO in Black Lake Bayou, Black Lake and Clear Lake, and Saline

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/11blkclrsalin_dof_tmdl.pdf

100710

Unnamed Tributary to Grand Bayou

Town of Hall Summit	0.056 MGD	10 $CBOD_5$/15 TSS/10 NH_3-N

100801

Saline Bayou

Village of Saline	0.034 MGD	20 $CBOD_5$/20 TSS

100804

Unnamed Tributary to Saline Bayou

City of Arcadia	0.85 MGD	10 $CBOD_5$/2 NH_3-N/6 DO

101301, 101302

TMDLs for DO in Bayou Rigolette and Iatt Lake

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/12iattrigol_dof_tmdl.pdf

BOD and Nutrients TMDL

101303

Iatt Creek

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER (MAR-NOV)	WINTER (DEC-FEB)	% Reduction
Point Source WLA	84 (lbs/day)	84 (lbs/day)	0
Point Source MOS (20%)	20	20	
Natural Nonpoint Source LA	553	622	60
Natural Nonpoint Source Reserve MOS (20%)	82	86	
Manmade Nonpoint Source LA	2185	1563	60
Manmade Nonpoint Source Reserve MOS (20%)	31	42	
TMDL	2955 (lbs/day)	2417(lbs/day)	

Point Source Summary
FACILITY: Winn Correctional Facility

Permit Number: LA 0107000

TMDL PERMIT LIMITS: 10 mg/l BOD5

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to CBOD5 ratio = 2.3 for all treatment levels
Permit allocations are generally based on CBOD5***

101604

TMDL for DO in Lake Concordia

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/13lconcordia_dof_tmdl.pdf

BOD and Nutrients TMDL

101605

Bayou Cocodrie

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER (MAY-OCT)	WINTER (NOV-APR)	% Reduction
Point Source WLA*	0 (lbs/day)	0 (lbs/day)	0
Nonpoint Source LA	474	472	95
MOS (10%)	0	0	
TMDL	474 (lbs/day)	472 (lbs/day)	

* There are currently no point source dischargers in this waterbody.

SABINE RIVER BASIN

TMDLS/WLAS

110401

TMDL for DO in Bayou Toro

Developed by FTN Associates for EPA; dated 3/21/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/14btoro_dof_tmdl.pdf

110501

TMDL for DO and Nutrients in West Anacoco Creek

Developed by LDEQ; dated 11/15/2007

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/Final_West_Anacoco_Creek_110501_TMDL_11-15-07.pdf

The results of the projection modeling for subsegment 110501 show that the water quality standard of 5.0 mg/l for dissolved oxygen cannot be maintained even at background conditions. The No Load Scenario for summer without reduction in natural background pollution yields a minimum DO of 4.39 mg/l. Kisatchie Bayou was the reference stream used to calculate background conditions. Projections for a dissolved oxygen criteria of 4.0 mg/L and 3.0 mg/L were run and the resulting allocations are presented in Table 1 and Table 2.

Table 1. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD) for a 4.0 mg/L dissolved oxygen standard

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	0	0	0
Point Source Reserve MOS (20%)		0		0
Natural Nonpoint Source LA	0	778	0	551
Natural Nonpoint Source Reserve MOS (20%)				
Manmade Nonpoint Source LA	70	560	70	330
Manmade Nonpoint Source Reserve MOS (20%)		139		82
TMDL		1,477		841

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally bas ed on $CBOD_5$***

Table 2. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD) for a 3.0 mg/L dissolved oxygen standard

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	0	0	0

Point Source Reserve MOS (20%)		0		0
Natural Nonpoint Source LA	0	778	0	551
Natural Nonpoint Source Reserve MOS (20%)				
Manmade Nonpoint Source LA	30	1,308	30	767
Manmade Nonpoint Source Reserve MOS (20%)		326		187
TMDL		2,412		1,505

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

110501 Discharger Inventory

							MONTHLY AVERAGE CONCENTRATION LIMITS		MONTHLY AVERAGE MASS LIMITS		
FACILITY	**FILE No.**	**Out-fall No.**	**OUTFALL DESCRIP-TION**	**FACILITY TYPE**	**RECEIVING WATER**	**EXPECTED FLOW GPD**	**BOD5/ CBOD5, mg/L**	**NH_3-N, mg/L**	**BOD, lbs./day**	**NH_3-N, lbs./day**	**MODELING COMMENTS**
Town of Hornbeck	**18805**	**001**	**Point of discharge from oxidation pond**	**Municipality**	**Unnamed ditch, thence into Brushy Creek, thence into West Anacoco Creek**	**43,000**	**20**		**0.032**		**Not Modeled – too far from the named waterbody and Brushy Creek not flowing during the time of the survey.**

EPA's Hg TMDL for Coastal and Gulf Waters

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

TERREBONNE BASIN

TMDLs/WLAs

BOD and Nutrients TMDL
(EPA TMDL)

Upper Terrebonne Basin

(120102, 120103, 120105, 120106, 120107, 120109, 120110)

Developed by Tetra Tech for EPA; dated 3/14/2008 and revised 9/30/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/upter_tmdldonut_sept08f.pdf

BOD and Nutrients TMDL

120104

Bayou Grosse Tete and Tributaries
(Bayou Portage and Bayou Fordoche, Subsegments 120101 and 120112)

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	May – October (lbs/day)	% Reduction Required	November-April (lbs/day)
Point source WLA	0	57	0	57
Point source MOS (20%)		15		15
Natural nonpoint source LA	0	7,270	0	5,627
Manmade nonpoint source LA	95	666	95	507
Manmade nonpoint source MOS		165		126
TMDL		8,173		6,332

Note: UCBOD as stated in this allocation is ultimate CBOD. Permit limitations are generally based on $CBOD_5$. UCBOD to $CBOD_5$ ration is 2.3 for all treatment levels.

Bayou Grosse Tete Dischargers, Subsegment 120104

		Current Expected Flow	Current Monthly Average Concentration Limits		TMDL Monthly Average Concentration Limits		TMDL Monthly Average Mass Limits	
Facility	**AI #**	**GPD**	**BOD_5/ $CBOD_5$, mg/L**	**NH_3-N, mg/L**	**BOD_5/ $CBOD_5$, mg/L**	**NH_3-N, mg/L**	**$CBOD_5$, lbs./day**	**NH_3-N, lbs./day**
Louisiana Laborer's T&A Fund	LAG540442	1900	30	N/A	30	N/A	0.476	N/A
Joe's "Dryfus Store" Restaurant	LAG540995	7500	30	N/A	30	N/A	1.877	N/A
Valverda Elementary	WG020653	12,040	30	N/A	30	N/A	3.014	N/A
Town of Maringouin STP	LA0086771	150,000	10	N/A	10	N/A	12.518	N/A
North Iberville Elementary and High School	LAG540386	15,575	30	N/A	30	N/A	3.899	N/A
Bayou Truck Stop	LAG541027	12,300	30	N/A	30	N/A	3.079	N/A
David's Catering	LAG531142	1050	45	N/A	45	N/A	0.394	N/A
Village of Grosse Tete STP	LAG560105	30,000	20				*	
Delta Place Subdivision STP	LAG570185	70,000	10				*	
Pointe Coupee Sewer District #4	LA0092665	70,000	10				*	
Village of Morganza STP	LA0020028	125,000	10				*	
Pointe Coupee Central High School	LAG540580	25,000	30				*	
LaBarre	LAG530425	5,000	45					

Elementary								

* No impact/ too small/too far away – Not modeled

BOD and Nutrients TMDL

120111

Bayou Maringouin

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	May – October (lbs/day)	% Reduction Required	November-April (lbs/day)
Point source WLA	0	0	0	0
Point source MOS	0	0	0	0
Natural nonpoint source LA	50	677	0	855
Natural nonpoint source MOS	0	0	0	0
Manmade nonpoint source LA	100	0	90	51
Manmade nonpoint source MOS	0	0	0	4
TMDL		677		910

Note: UCBOD as stated in this allocation is ultimate CBOD. Permit limitations are generally based on $CBOD_5$. UCBOD to $CBOD_5$ ration is 2.3 for all treatment levels.

BOD and Nutrients TMDL

120201

Lower Grand and Belle River

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	**SUMMER**		**WINTER**	
	% Reduction Required	March – November (lbs/day)	% Reduction Required	December-February (lbs/day)
Point source WLA	0	302	0	919
Point source MOS	0	75	0	229
Manmade nonpoint source LA	65	46,078	65	38,330
Manmade nonpoint source MOS	0	11,519	0	9,583
TMDL		57,974		49,061

Note: UCBOD as stated in this allocation is ultimate CBOD. Permit limitations are generally based on $CBOD_5$. UCBOD to $CBOD_5$ ration is 2.3 for all treatment levels.

BOD and Nutrients TMDL

120201

Lower Grand and Belle River

Point Source TMDL Summary 120201

		CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS		MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS		TMDL MONTHLY MASS LIMITS	
FACILITY	**FILE NO.**	**GPD**	**BOD_5/$CBOD_5$ (mg/L)**	**NH_3-N (mg/L)**	**GPD**	**BOD_5/$CBOD_5$ (mg/L)**	**NH_3-N (mg/L)**	**$CBOD_5$ (lbs/day)**	**NH_3-N (lbs/day)**
Bayou Pigeon Bridge	98434	500	30	15	599.14	30	15	0.13	0.06
Oak Grove Apartments	42708	25,000	30	15	31,383.65	30	15	9.39	3.13
Belle River STP	19218	60,000	10	10	74,179.53	10	10	5.01	5.00
The Oaks at Belle River Subdivision	84826	34,000	20	10	42,795.88	20	10	5.67	2.84
Stephensville STP	19217	390,000	10	10	487,873.03	10	10	32.55	32.55

BOD and Nutrients TMDL
(EPA TMDL)

120202, 120204, 120304, 120403, 120604

Middle Terrebonne Basin

Developed by Tetra Tech for EPA; dated 3/14/2008 and revised 9/30/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/midter_tmdldonut_sept08f.pdf

120205, 120402

TMDLs for pH in Lake Palourde and Bayou Chene

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/17lpalour_bchene_ph_tmdlf.pdf

120206

TMDL for BOD and Nutrients in Grand Bayou and Little Grand Bayou

Developed by LDEQ; dated 3/31/2008

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/FINAL_Grand_Bayou_TMDL_Subseg120206-03312008.pdf

The results of projection modeling for Grand Bayou show that the water quality standard for dissolved oxygen of 5.0 mg/L can be maintained during the summer critical season with a 100% reduction in man-made pollution. This results in a minimum DO of 4.94 mg/L at RK 7.536 to RK 7.682. The winter projection model with a 100% reduction of man-made pollution shows a minimum DO of 6.53 mg/L at RK 0.000 to RK 0.120. The No Load Scenario for summer without reduction in natural background pollution yields a minimum DO of 4.94 mg/L. Allocations for alternative projections with a DO criteria of 3.0 mg/L and 2.0 mg/L are presented in Tables 2 and 3.

Table 1. Total Maximum Daily Load (Sum of UBOD and SOD) for Grand Bayou at a 5.0 mg/L standard

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source WLA	0	9	0	9
Point Source Reserve MOS = 20%		2		2
Natural Nonpoint Source LA	0	6,370	0	4,450
Manmade Nonpoint Source LA	100	0	100	0
Manmade Nonpoint Source Reserve MOS Summer = 20% Winter = 20%		0		0
TMDL		6,381		4,461

***Note 1: UBOD as stated in this allocation is Ultimate BOD.
UBOD to BOD_5 ratio = 2.3 for all treatment levels
Permit allocations are generally based on BOD_5***

Table 2. Total Maximum Daily Load (Sum of UBOD and SOD) for Grand Bayou at a 3.0 mg/L standard

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source WLA	0	9	0	9

Point Source Reserve MOS = 20%		2		2
Natural Nonpoint Source LA	0	6,370	0	4,450
Manmade Nonpoint Source LA	90	1,314	90	1,014
Manmade Nonpoint Source Reserve MOS Summer = 20% Winter = 20%		329		254
TMDL		8,024		5,729

***Note 1: UBOD as stated in this allocation is Ultimate BOD.
UBOD to BOD_5 ratio = 2.3 for all treatment levels

Table 3. Total Maximum Daily Load (Sum of UBOD and SOD) for Grand Bayou at a 2.0 mg/L standard

Permit allocations are generally based on BOD_5***

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source WLA	0	9	0	9
Point Source Reserve MOS = 20%		2		2
Natural Nonpoint Source LA	0	6,370	0	4,450
Manmade Nonpoint Source LA	85	1,973	85	1,521
Manmade Nonpoint Source Reserve MOS Summer = 20% Winter = 20%		492		381
TMDL		8,846		6,363

***Note 1: UBOD as stated in this allocation is Ultimate BOD.
UBOD to BOD_5 ratio = 2.3 for all treatment levels
Permit allocations are generally based on BOD_5***

Summertime projection modeling for Little Grand Bayou also shows that a 100% reduction in man-made loading is necessary to maintain a dissolved oxygen standard of 5.0 mg/L. The minimum DO of 5.23 mg/L occurs between RK 5.184 and RK 5.292. A 100% reduction of man-made loading in the winter projection yields a minimum DO of 6.87 mg/L at RK 0.000 to RK 0.060. There are no direct input point sources for Little Grand Bayou, so a No Load Scenario would be exactly the same input as the 100% reduction runs. Allocations for alternative projections with a DO criteria of 3.0 mg/L and 2.0 mg/L are

Table 4. Total Maximum Daily Load (Sum of UBOD and SOD) for Little Grand Bayou at a 5.0 mg/L

standard

presented in Tables 5 and 6.

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)

Point Source WLA	0	0	0	0
Point Source Reserve MOS = 20%		0		0
Natural Nonpoint Source LA	0	1,001	0	904
Manmade Nonpoint Source LA	100	0	100	0
Manmade Nonpoint Source Reserve MOS Summer = 20% Winter = 20%		0		0
TMDL		1,001		904

***Note 1: UBOD as stated in this allocation is Ultimate BOD.
UBOD to BOD_5 ratio = 2.3 for all treatment levels
Permit allocations are generally based on BOD_5***

Table 5. Total Maximum Daily Load (Sum of UBOD and SOD) for Little Grand Bayou at a 3.0 mg/L standard

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source WLA	0	0	0	0
Point Source Reserve MOS = 20%		0		0
Natural Nonpoint Source LA	0	1,001	0	904
Manmade Nonpoint Source LA	90	1,047	90	981
Manmade Nonpoint Source Reserve MOS Summer = 20% Winter = 20%		262		247
TMDL		2,310		2,132

***Note 1: UBOD as stated in this allocation is Ultimate BOD.
UBOD to BOD_5 ratio = 2.3 for all treatment levels
Permit allocations are generally based on BOD_5***

Table 6. Total Maximum Daily Load (Sum of UBOD and SOD) for Little Grand Bayou at a 2.0 mg/L standard

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) (lbs/day)
Point Source WLA	0	0	0	0
Point Source Reserve MOS = 20%		0		0

Natural Nonpoint Source LA	0	1,001	0	904
Manmade Nonpoint Source LA	85	1,572	85	1,473
Manmade Nonpoint Source Reserve MOS Summer = 20% Winter = 20%		392		368
TMDL		2,965		2,745

***Note 1: UBOD as stated in this allocation is Ultimate BOD.
UBOD to BOD_5 ratio = 2.3 for all treatment levels
Permit allocations are generally based on BOD_5***

Table 7. Point Source TMDL Summary for Subsegment 120206, Grand Bayou

			CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS		TMDL MONTHLY AVERAGE MASS LIMITS		
FACILITY	**AI/LPDES No.**	**Out-fall No.**	**GPD**	**BOD5/ CBOD5, mg/L**	**NH_3-N, mg/L**	**GPD**	**GPD**	**BOD5/ CBOD5, mg/L**	**NH_3-N, mg/L**	**CBOD5, lbs./day**	**NH_3-N, lbs./day**	**MODELING COMMENTS**
Texas Eastern Transmission Corp – White Castle Compressor Station	**7359/ LA0107212**	**002**	**150**	**45**								**No impact – Not modeled**
Southern Natural Gas Co. – White Castle Compressor Station	**4197/ LA0108642**	**002**	**140**	**45**								**No impact – Not modeled**
Gulf South Pipeline Co. – Rodrigue Compressor Station	**98149/ LAG531262**	**001**	**5,000**	**45**								**No impact – Not modeled**
Assumption Parish Police Jury – Belle Rose Lane Sewerage District	**98165/ LAG540954**	**001**	**14,300**	**30**								**No impact – Not modeled**
Bayou Corne Sewer Co. Inc. – Sportsman's Paradise Subdivision	**41241/ LAG540036**	**001**	**15,200**	**30**								**No impact – Not modeled**
No Problem Raceway Park	**86479/ LAG541191**	**001**	**23,860**	**30**								**No impact – Not modeled**
Super Stop Enterprises – Gator Super Stop Truck Stop	**93668/ LAG541081**	**001**	**7,760**	**30**		**9,815**	**2,055**	**30**				**Included in Grand Bayou model**

St. Elizabeth School	**87130/ LAG531143**	**001**	**4,050**	**45**								**No impact – Not modeled**
K/D/S Promix LLC, Fractionation Plant	**42929/ LA0119491**	**001**	**150,789**									**No impact, only BOD component comes from internal outfalls 101, 201, 301 and 401 with combined flow of only 700 gpd – Not modeled**
Leblanc Brothers Redi-Mix – Paincourtville Facility	**6734/ LAG110053**	**003**	**144**									**No BOD component – Not modeled**
Lula Westfield LLC – Westfield Raw Sugar Factory	**42344/ LA0000485**	**001**	**10,000,000**	**10**								**Not discharging at time of survey or during critical conditions – Not modeled**
Lula Westfield LLC – Lula Raw Sugar Factory	**4182/ LA0007382**	**001/002**	**9,837,845 (combined)**	**10**								**Discharges into a tributary that had no measureable flow during survey – Not modeled**
Cora-Texas Manufacturing Co.	**1306/ LA0001295**	**002**	**7,900,000**	**10**								**Not discharging at time of survey or during critical conditions – Not modeled**
Dow Chemical Co. – Grand Bayou Operations	**1007/ LA0049310**	**001**	**1,300,000**									**No impact, only BOD component comes from internal outfall 101 with a flow of only 100 gpd – Not modeled**
		002	**1,700,00**									**No BOD component – Not modeled**
		003	**130,000**									**No BOD component – Not modeled**
		004	**270,000**									**No impact, only BOD component comes from internal outfalls 104 and 204 with combined flow of only 320 gpd – Not modeled**
Acadian Gas Storage Facility	**25004/ LAG531692**	**001**	**60**	**45**								**No impact –Not modeled**
Grant Loop Community Sewer System	**116873/ LAG541277**	**001**	**17,200**	**30**								**No impact – Not modeled**
Triad Nitrogen LLC	**122533/ LAG670075**	**001**	**Variable**									**No BOD component – Not modeled**

Assumption Community Hospital	**37590/ LAG540548**	**001**	**7,600**	**30**								**Discharge never enters the Grand Bayou system, travels via local drainage into subsegment 120204 and thence into Lake Verret – Not modeled**

120206

TMDL for TSS in Grand Bayou and Little Grand Bayou

Developed by Tetra Tech for EPA; dated 3/14/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/16_120206_tss_tmdlf.pdf

BOD and Nutrients TMDL

120301

Bayou Terrebonne

Developed by LDEQ; dated 3/19/2008

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/Final_BayouTerrebonne_03312008.pdf

Total Maximum Daily Load for Upper and Lower Terrebonne (Sum of CBOD, NH3-N, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(May-Oct) (lbs BOD/day)	% Reduction Required	(Nov-Apr) (lbs BOD/day)
Point Source WLA		29		29
Point Source Reserve MOS = 20%		7		7
Total Nonpoint Source LA	80 / 70	1,479	80 / 70	1,164
Total Nonpoint Source MOS Summer = 10% upstream/10% downstream Winter = 10% upstream/10% downstream		165		130
TMDL		1,680		1,330

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

Point Source TMDL Summary, Subsegment 120301

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Schriever School	19162/ LAG540733	10,650	30		25,000	6250	30		Included in the model
City of Thibodaux Munisipal Separate Storm Sewer System (MS4)*	108472/ LAR041011								Not included in the model-stormwater
Terrebonne Parish Munisipal Separate Storm Sewer System (MS4)*	108407/ LAR041023								Not included in the model-stormwater
Andrew Price School*	51973/ LAG531000	3,880	45 (weekly average)						Not included in the model-too small
Partek Laboratories*	42776/ LAG530409	220	45 (weekly average)						Not included in the model-too small, too far from Bayou Terrebonne
Chevron Jubilee 4606*	41775/ LAG750205	360	45 (weekly average)						Not included in the model-too small
North Branch of the Terrebonne Parish Library*	38494/ LAG531241	1,000	45 (weekly average)						Not included in the model-too small
United Parcel Service, Houma Center*	83322/ LA0096547	480	45 (weekly average)						Not included in the model-too small

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Jubilee Exxon 4608*	41774/ LAG750289	360	45 (weekly average)						Not included in the model-too small
Plug and Abondonment Division*	27338/ LA0106291	200	45 (weekly average)						Not included in the model-too small
Burger King Restaurant*	43458/ LAG530804	3,200	30						Not included in the model-too small
Best Western Houma Inn*	33840/ LAG540951	8,300	30						Not included in the model-too small
Colonel's Truck Stop and Casino*	95797/ LAG541061	10,000	30						Not included in the model-too small
McDonald's*	42440/ LAG530363	2,300	45 (weekly average)						Not included in the model-too small
Big Boy Seafood*	12197/ LA119814	980	45 mg/L (weekly average)						Not included in the model-too small
A-1 Used Cars*	11737/ LAG470200	80	45 mg/L (weekly average)						Not included in the model-too small
McDonalds #12185*	42440/ LAG530363	2,600	45 mg/L (weekly average)						Not included in the model-too small
Burger King #11942*	43458/ LAG530804	3,200	45 mg/L (weekly average)						Not included in the model-too small

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Bayou Cane Hall, LLC*	98444/ LAG531400	985	45 mg/L (weekly average)						Not included in the model-too small
Gray Self Serve*	77717/ LAG531410	2,120	45 mg/L (weekly average)						Not included in the model-too small
Domino's Pizza Store #5243*	125829/ LAG531744	100	45 mg/L (weekly average)						Not included in the model-too small
Bayou Cane Sport's Bar*	128480/ LAG531801	600	45 mg/L (weekly average)						Not included in the model-too small
Andrew Price Recreation Center*	129740/ LAG531865	750	45 mg/L (weekly average)						Not included in the model-too small
BNSF Railway Co-Schriever Yard STP*	137313/ LAG532018	140	45 mg/L (weekly average)						Not included in the model-too small
Gray Truck Stop and Casino*	137529/ LAG541411	7,790	30 mg/L (monthly average)						Not included in the model-too small
Major Suds Car Wash*	139326/ LAG75055	500	45 mg/L (weekly average)						Not included in the model-too small
Excell Crane and Hydraulics, Inc.*	23738/ LAG480230	100	45 mg/L (weekly average)						Not included in the model-too small
Schlumberger Facility*	2184/ LAG480002	50	45 mg/L (weekly average)						Not included in the model-too small

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
UPS Houma Center*	**83322/ LAG480327**	**480**	45 mg/L (weekly average)						**Not included in the model-too small**
Paul's Auto Salvage	**25789/ LAG531899**	**160**	**45 mg/L (weekly average)**						**Not included in model-discharges to St. Louis Bayou**
Willowdale Subdiviaion	**43627/ LAG560015**	**37,200**	**20**						**Not included in model-discharges to St. Louis Bayou**
Country Boy Trailer Park	**19835/ LAG540243**	**<10,000**	**30**						**Not included in model-discharges to Cypress Co. Canal to St. Louis Banal to ICWW**
Fairlane Bayou	**41486/ LAG540029**	**18,400**	**30**						**Not included in model-discharges to Ouiski Bayou to Bayou Cane**
Schlumberger Well Services, Houma Operations	**19631/ LA0081094**	2,000	45 mg/L (weekly average)						**Outfall 002-Not included in model-discharges to St. Louis Canal or Bayou Blue**
		4,500	45 mg/L (weekly average)						**Outfall 006-Not included in model-discharges to St. Louis Canal or Bayou Blue**
Schlumberger Well Services, Houme Open Hole	**22427/ LA0084921**	**275**	**45 mg/L (weekly average)**						**Not included in model-discharges to Caro Canal to Houma Navigation Canal**
North Treatment Plant-Terrebonne Parish Consolidated Gov't.	**19176/ LA0040207**	**6,730,000**	**10**						**Not included in model-discharges to St. Louis Canal**

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Caldwell Middle School-Terrebonne Parish School Board	**19172/ LAG540722**	**12,020**	**30**						**Not included in model-discharges to Ouiski Bayou to Bayou Black**
Coteau Bayou Blue Elementary School-Terrebonne Parish School Board	**19171/ LAG540723**	**14,000**	**30**						**Not included in model-discharges to Bayou Little Coteau to St. Louis Bayou**
Eureka Heights Subdivision	**41432/ LAG570018**	**39,360**	**10**						**Not included in model-discharges to St. Louis Canal**
Lumen Christ Retreat Center	**18944/ LAG540272**	**870**	**30**						**Not included in model-discharges to Ouiski Bayou to Bayou Black**
Suburban Estates Subdivision	**43626/ LAG560240**	**57,600**	**10**						**Not included in model-discharges to St. Louis Bayou**
Schreiver Water Plant & STP	**27838/ LAG530566**	**327**	45 mg/L (weekly average)						**Not included in model-discharges to Bayou Blue or St. Louis Canal**
Tara Subdivision	**18673/ LAG570131**	**67,440**	**10**						**Not included in model-discharges to Little Bayou Coteau**
Danny and Clyde Food Store # 23	**40772/ LAG531133**	**500**	45 mg/L (weekly average)						**Not included in model-discharges to Little Bayou Black**
Capri Court	**19887/ LAG540221**	**<25,000**	**30**						**Not included in the model-discharges to St. Louis Canal**
Computalog Wireless Services, Inc.	**12646/ LAG480406**	**151**	45 mg/L (weekly average)						**Not included in model-discharges to Hollywood Canal or Bayou Blue**

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Johnson Ridge Community Improvements	43509/ LAG560136	45,000	20						Not included in model- discharges to St. Louis Canal
Mobil Estatees Subdivision	42540/ LAG570214	74,800	10						Not included in model- discharges to St. Louis Canal
South Electric Cooperative Assn.	9181/ LAG750272	600	45 mg/L (weekly average)						Not included in model- discharges to St. Louis Canal
Coteau Trailer Park	41101/ LAG540238	<25,000	30						Not included in model- discharges to Lake Coteau to Lake Houma
Little Bayou Black Soc J3307	40759/ LAG530991	480	45 mg/L (weekly average)						Not included in model- discharges to Little Bayou Black
West Building Materials	43928/ LAG530909	100	45 mg/L (weekly average)						Not included in model- discharges to Little Bayou Black
Matherne Development	33902/ LA0113255	114,200	10						Not included in model- discharges to Bayou Cane
EXXON Jubilee #624	82058/ LAG540958	<10,000	30						Not included in model- discharges to Little Bayou Coteau
Chateau Audobon	87935/ LAG531130	<2,500	45 mg/L (weekly average)						Not included in model- discharges to St. Louis Canal
Levytown STP- Terrebonne Parish Consolidated Gov't	43510/ LAG560135	30,000	20						Not included in model- discharges to Ouiski Bayou to Little Bayou Black

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Lake Houmas Inn	**42237/ LAG540466**	**6,500**	**30**						**Not included in the model-discharges to St. Louis Canal to ICWW**
Sub District 02 Headquarters	**18410/ LAG530166**	**1,000**	45 mg/L (weekly average)						**Not included in the model-discharges to a ditch to Bayou Cane**
Frank's Casing Crew and Rental Tools, Inc.	**41566/ LAG480590**	**80**	45 mg/L (weekly average)						**Not included in the model-discharges to a ditch to ICWW**
Circle K-Quality Food Store, Inc	**75400/ LAG531619**	**910**	45 mg/L (weekly average)						**Not included in the model-discharges to ICWW**
Eager Eagle Productions, LLC	**141935/ LAG532104**	**100**	45 mg/L (weekly average)						**Not included in the model-discharges to a ditch to Bayou Cane to Bayou Black**
Kenneth Rembert Mobile Home Park	**42035/ LAG540823**	**12,800**	30						**Not included in the model-discharges to a ditch to ICWW**
Olsen Securities Corp.	**42718/ LAG540847**	**12,000**	30						**Not included in the model-discharges to a ditch to St. Louis Bayou**
Coteau 90 Exxon and Casino	**68924/ LAG541041**	**<17,000**	30						**Not included in the model-discharges to a ditch Caro Canal to St. Louis Bayou to ICWW**
Bayou Blue Mobile Home Court WWTP	**121640/ LAG541228**	**20,000**	30						**Not included in the model-discharges to St. Louis Bayou to ICWW**
Ferantello Estates WWTP	**123218/ LAG570261**	**27,600**	10						**Not included in the model-discharges to local drainage to Ouiski Bayou**

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Quiet Oaks Subdivision WWTp	**128702/ LAG570354**	**36,800**	10						**Not included in the model-discharges to St. Louis Bayou to ICWW**
The Landing on Bayou Cane	**106649/ LAG570258**	**69,280**	10						**Not included in the model-discharges to Bayou Cane**
Jollie Oaks Subdivision*	**99377/ LAG541113**	**20,000**	**30 mg/L (monthly average)**						**Not included in the model-discharges to St. Louis Bayou**
Baker Atlas	**19378/ LAG480081**	**200**	45 mg/L (weekly average)						**Not included in the model-discharges to St. Louis Bayou**
Security Boulevard Rentals, LLC	**119160/ LAG480380**	**760**	45 mg/L (weekly average)						**Not included in the model-discharges to Little Bayou Black**
Southern Technology and Services, Inc.	**29921/ LAG480390**	**1,500**	45 mg/L (weekly average)						**Not included in the model-discharges to Bayou Little Coteau**
Wood Group Logging Services	**12646/ LAG480406**	**151**	45 mg/L (weekly average)						**Not included in the model-discharges to Hollywood Canal or Bayou Blue**
Weatherford US, LP	**12878/ LAG480486**	**500**	45 mg/L (weekly average						**Not included in the model-discharges to Black Bayou**
T3 Energy Services	**11155/ LAG530142**	**880 (outfall 001)** **298 (outfall 002)** **182 (outfall 003)**	45 mg/L (weekly average						**Not included in the model-discharges to Little Black Bayou**

FACILITY	AI Number/ LPDES Number	CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		TMDL FLOW	MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS (unless otherwise indicated)		
		GPD	BOD5, mg/L	NH_3-N, mg/L	GPD	GPD	BOD5, mg/L	NH_3-N, mg/L	MODELING COMMENTS
Geri Leblanc Pontiac Buick GMC Truck	30020/ LAG470143								Not included in the model; connected to the City of Thibodaux STP
Trapp Chevrolet Oldsmobile Cadillac	10182/ LAG470041								Not included in the model-connected to parish sewage system
Robichaux Ford	91037/ LAG470117								Not included in the model-conntected to the City of Thibodaux STP
Acadia Woods Subdivision	38187/ LAG540083								Not included in model-connected to the City of Thibodaux STP
Eschete Trailer Park	105179								Not included in the model-discharges to parish sewage
Baywash	41208/ LAG750220								Not included in the model-discharges to parish sewage
Enterprise Rent-a-Car	41392/ LAG750229								Not included in the model-no sanitary discharge

* Notes: While this source is not specifically modeled, its residual impact is accounted for in the nonpoint source load component of the model, and that the permit conditions should continue in effect.

BOD and Nutrients TMDL

120302

Bayou Folse

Developed by LDEQ; dated 3/31/2008

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/FINAL_BAYOUFOLSE120302TMDL_033108.pdf

The existing point sources have little to no impact on the main stem of Bayou Folse and require no changes to their permitted discharges.

The results of the projection modeling for subsegment 120302 show that the water quality standard of 5.0 mg/l for dissolved oxygen cannot be maintained even with a 90% reduction in non-point sources. There were no appropriate reference streams available to calculate background conditions. Allocations are presented in Table 1.

Table 1. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	346	0	346
Point Source Reserve MOS (20%)		86		86
Nonpoint Source LA	90	320	90	260
Nonpoint Source Reserve MOS (20%)		79		64
TMDL		831		756

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally bas ed on $CBOD_5$***

Bayou Folse
WLA Allocations

Facility	WLA(lbs/day)
Lafourche SD#1	99
Lafourche PH WD #1	119
Lafourche Par SD #14	29
Community Sewer Service	24
Grand Marnier Subdivision	46
Thoroughbred Park Subdivision	29
TOTAL	**346**

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally bas ed on $CBOD_5$***

120302 Discharger Inventory

FACILITY	FILE No.	NPDES No.	FACILITY TYPE	RECEIVING WATER	EXPECTED FLOW GPD	BOD5/ CBOD5, mg/L	MODELING COMMENTS
Caro Foods Inc - PFG Caro	19877	LA0072231	Produce Distribution	Hollywood Canal	10,000	30	Not Modeled – too far from the named waterbody.
St. Patrick St.	19454	LAG540362	Public Housing	unnamed ditch to Bayou Cut Off to 40 Arpent Canal to Company Canal	12,000	30	Not Modeled – too far from the named waterbody.
Elmwood Estates	19194	LAG540702	Subdivision	unnamed ditch to Bayou Cut Off to Fourty Arpent Canal to Company Canal	24,000	30	Not Modeled – too far from the named waterbody.
LAFOURCHE PAR SEW DIST #1 (Country Club Subdivision)	43666	LA0049344	Subdivision	Fourty Arpent Canal to Company Canal	180,000	10	Modeled
Harlan's Trailer Park	41725	LAG540344	Trailer Park	28 Arpent Canal to 40 Arpent Canal to Bayou Terrebonne	10,000	30	No Modeled – too far from the named waterbody.
Thoroughbred Park Subdivision	43543	LAG570091	Subdivision	unnamed ditch to Bayou Cutoff	50,400	10	Modeled as Throughbred Ditch
Drachenberg Mobile Home Park	31060	LAG540274	Trailer Park	Unnamed ditch to 40 Arpent Canal to Company Canal	15,300	30	Not Modeled – too far from the named waterbody.
Country Village Estates	18544	LAG560043	Subdivision	local drainage to 40 Arpent Canal to Bayou Lafourche to Company Canal	32,000	20	Not Modeled – too far from the named waterbody.
Martin Trailer Park	18257	LAG530354	Trailer Park	Pipe to street drainage ditch to Hollywood Canal to Company Canal SW of Lake Fields	4,500	30	Not Modeled – too far from the named waterbody.

Marcel's Trailer Rental	**18020**	**LAG530351**	**Trailer Park**	**Extended aeration package plant to Hwy 316 ditch to St Louis Canal to Hollywood Canal to Company Canal**	**2,000**	**30**	**Not Modeled – too far from the named waterbody.**
Community Sewer Service (Dugas Subdivision)	**41103**	**LAG540239**	**Subdivision**	**Ex Aer Plt to drainage ditch to unnamed canal to junction of Hollywood Canal and Bayou Cut-off. B Cut-off to Bayou Folse to Lake Fields and Company Canal. Hollywood Canal to St. Louis Canal and Company Canal.**	**20,800**	**30**	**Modeled as part of Dugas Canal**
Bailey's Apartments	**42075**	**LAG530285**	**Apartment Complex**	**Unnamed ditch to Bayou Cutoff**	**4,400**	**30**	**Not Modeled – too far from the named waterbody.**
Tools and Testing Department	**22714**	**LA0097268**	**Drilling Co.**	**Local drainage to Hollywood Canal**	**363**	**30**	**Not Modeled – too far from the named waterbody.**
LAFOURCHE PAR SEW DIST #14 (Dugas Subivision with addendum treatment plant)	**42222**	**LAG560113**	**STP**	**local Drainage to Company Canal**	**27,200**	**20**	**Modeled as part of Dugas Canal**
Richard Ledet's Trailer Park	**43045**	**LAG530461**	**Trailer Park**	**Unnamed ditch, 40 Arpent, Company Canal, Bayou Lafourche**	**900**	**30**	**Not Modeled – too far from the named waterbody.**
St. Charles Elementary School	**5153**	**LAG540463**	**Public School**	**Ditch to Bayou Cutoff to Bayou Folse**	**5,565**	**30**	**Not Modeled – too far from the named waterbody.**
Central Lafourche School	**42217**	**LAG540454**	**Public School**	**Bayou Lafourche**	**21,960**	**30**	**Not Modeled – too far from the named waterbody.**

Economy Inn	**41346**	**LAG530185**	**Motel**	**Bayou Lafourche via Company Canal**	**1,600**	**30**	**Not Modeled – too far from the named waterbody.**
Raceland Store #3	**43092**	**LAG530679**	**Grocery Store**	**Bayou Lafourche**	**1,000**	**30**	**Not Modeled – too far from the named waterbody.**
Suard Barge	**43434**	**LA0103683**	**Barge Company/Shipyard**	**Company Canal, Intracoastal Waterway, Houma Deepwater Channel, Gulf of Mexico**	**8,500**	**30**	**Not Modeled – too far from the named waterbody.**
Grand Marnier Subdivison	**42293**	**LAG570171**	**Subdivision**	**Forty Arpent Canal to Bayou Cut-Off (to Hollywood Canal to (St Louis Canal to ICWW) to Company Canal) to Company Canal**	**84,400**	**10**	**Modeled**
Transitional Education Center	**81801**	**LAG531038**	**Training Center**	**unnamed canal to Hollywood Canal to ICWW**	**2,300**	**30**	**Not Modeled – too far from the named waterbody.**
Big Wheels Travel Center	**80700**	**LAG540986**	**Travel Center**	**US 90 ditch into Hollywood Canal (to St Louis Canal to the ICWW) to Company Canal**	**13,450**	**30**	**Not Modeled – too far from the named waterbody.**
Shady Park	**18487**	**LAG540640**	**Trailer Park**	**Ditch, bayou cut off, l field**	**12,000**	**30**	**Not Modeled – too far from the named waterbody.**
Woodgroup Logging Services	**12646**	**LA0103411**	**Logging Service**	**Local drainage to Hollywood Canal**	**151**	**30**	**Not Modeled – too far from the named waterbody.**
LAFOURCHE PH WATER DIST #1	**8170**	**LA0072621**	**North Water Plant**	**drainage ditch to Bayou Cutoff to Bayou Folse to Lake Fields**	**108,000**	**10**	**Modeled as part of Dugas Canal**

BOD and Nutrients TMDL

120303

Bayou L'Eau Bleu BOD and Nutrients TMDL

Developed by LDEQ; dated 3/31/2008

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/FINAL_BayouLeauBleu120303TMDL_033108.pdf

Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)

ALLOCATION	Summer	Winter
	May – Oct (lbs/day)	Nov - Apr (lbs/day)
Total Nonpoint Source LA	3,586	3,164
MOS (10%)	1,404	792
TMDL	**4,972**	**3,956**
Total Nonpoint Reduction Required	80%	80%

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

120303 Discharger Inventory

							MONTHLY AVERAGE CONCENTRATION LIMITS		MONTHLY AVERAGE MASS LIMITS		
FACILITY	**FILE No.**	**Out-fall No.**	**OUTFALL DESCRIP-TION**	**FACILITY TYPE**	**RECEIVING WATER**	**EXPECTED FLOW GPD**	**BOD5/ CBOD5, mg/L**	**NH_3-N, mg/L**	**BOD, lbs./day**	**NH_3-N, lbs./day**	**MODELING COMMENTS**
Town of Lockport	**19435**	**001**	**Effluent Pipe**	**Municipality**	**Forty Arpent Canal, to Tom Foret Canal, into Bayou L'Eau Bleu**	**900,000**	**10**		**75.123**		**Not Modeled – too far from the named waterbody.**

BOD and Nutrients TMDL

(120401, 120404, 120405, 120406)

Lower Terrebonne Basin

Developed by Tetra Tech for EPA; dated 3/14/2008 and revised 9/30/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/loter_tmdldonut_sept08f.pdf

120501

Bayou Grand Caillou

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	March – November (lbs/day)	% Reduction Required	December-February (lbs/day)
Point source WLA	0	7	0	7
Point source MOS	0	2	0	2
Manmade nonpoint source LA	80	732	80	626
Manmade nonpoint source MOS	0	183	0	157
TMDL		924		792

Note: UCBOD as stated in this allocation is ultimate CBOD. Permit limitations are generally based on $CBOD_5$. UCBOD to $CBOD_5$ ration is 2.3 for all treatment levels.

Point Source TMDL Summary 120501

FACILITY	FILE NO.	CURRENT EXPECTED FLOW (GPD)	CURRENT CONCENTRATION LIMITS	MOS FLOW (GPD)	TMDL CONCENTRATION LIMITS
Weatherford Petco Inc	LA0083178	540	30 mg/l BOD_5	135	30 mg/l BOD_5
McDonald's Corp	LAG531165	3280	30 mg/l BOD_5	820	30 mg/l BOD_5
Hill City Oil Co. of Miss.	LAG750227	1500	30 mg/l BOD_5	375	30 mg/l BOD_5
Smith Intl Inc.	LAG531003	500	30 mg/l BOD_5	125	30 mg/l BOD_5

BOD and Nutrients TMDL

120503

Bayou Petit Caillou

Total Maximum Daily Load (Sum of UCBOD, UNBOD, and SOD)

ALLOCATION	**SUMMER**		**WINTER**	
	% Reduction Required	May – October (lbs/day)	% Reduction Required	November-April (lbs/day)
Total nonpoint source LA	75	1,674	75	1,340
MOS (10%)		208		167
Future Growth Reserve (10%)		208		168
TMDL		2,090		1,675

BOD and Nutrients TMDL

120504

Bayou Petit Caillou

Developed by LDEQ; dated 3/31/2008

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/Final_PetitCaillou120504TMDLReport_033108.pdf

Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)

ALLOCATION	Summer	Summer	Winter	Winter
	% Reduction Required	May – Oct (lbs/day)	% Reduction Required	Nov - Apr (lbs/day)
Point Source WLA	0%	1206	0%	1206
Point Source Reserve MOS (20%)		302		302
Total Nonpoint Source LA	70%	8,141	70%	7,753
Total Nonpoint Source Reserve MOS (20%)		2,035		1,938
TMDL		11,684		11,199

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

120504 Discharger Inventory

							MONTHLY AVERAGE CONCENTRATION LIMITS		MONTHLY AVERAGE MASS LIMITS		
FACILITY	FILE No.	Out-fall No.	OUTFALL DESCRIP-TION	FACILITY TYPE	RECEIVING WATER	EXPECTED FLOW GPD	BOD5/ CBOD5, mg/L	NH_3-N, mg/L	BOD, lbs./day	NH_3-N, lbs./day	MODELING COMMENTS
Price Seafood	19047	LA0077461	Discharge to process wastewater, and washdown wastewater.	Shrimp Processor	Petite Caillou	9,500	Report		Report		Modeled
Indian Ridge Shrimp Co.	41891	LA0004073	Discharge to process wastewater, washdown water, and hand sink wastewater	Shrimp Processor	Petite Caillou	144,000			500		Modeled
Indian Ridge STP	43511	LAG560177	Discharge treated sanitary wastewater	STP	Bayou La Cache	30,000	20		5.01		This discharger is located in this subsegment but does not discharge to Petite Caillou.
Triple T Enterprises	43639	LA0091278	Discharge treated process wastewater, wash down water, and previously monitored sanitary wastewater.	Shrimp Processor	Petite Caillou	192,000	Report		Report		Modeled
Sarah Bridge	18955	LAG530311	Discharge Sanitary Wastewater	Traffic Bridge	Petite Caillou	20	30		0.005		Modeled

Piggly Wiggly	**81084**	**LAG531035**	**Discharge treated wastewater**	**Supermarket**	**Unnamed ditch to Unnamed bayou to Boudreaux Canal**	**1200**	**30**		**0.30**		**This discharger is located in this subsegment but does not discharge to Petite Caillou.**

BOD and Nutrients TMDL

120505

Bayou Du Large

Developed by LDEQ; dated 5/11/2007

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/Final_BAYOUDULARGEWATERSHEDTMDL_071807.pdf

Total Maximum Daily Load (Sum of UBOD and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAY-OCT) (lbs/day)	% Reduction Required	(NOV-APR) lbs/day)
Point Source WLA	0	0	0	0
Point Source Reserve MOS (20%)	0	0	0	0
Manmade Nonpoint Source LA	85	611	85	481
Manmade Nonpoint Source Reserve MOS(20%)	0	152	0	119
TMDL		763		600

Discharger Inventory for 120505

							MONTHLY AVERAGE CONCENTRATION LIMITS		MONTHLY AVERAGE MASS LIMITS		
FACILITY	**FILE No.**	**Out-fall No.**	**OUTFALL DESCRIP-TION**	**FACILITY TYPE**	**RECEIVING WATER**	**EXPECTED FLOW GPD**	**BOD5/ CBOD5, mg/L**	**NH_3-N, mg/L**	**BOD, lbs./day**	**NH_3-N, lbs./day**	**MODELING COMMENTS**
Terrebonne Parish Library	**91032**	**001**	**Treated sanitary wastewater**	**Library**	**Unnamed ditch; thence into Bayou Du Large**	**190**	**30**	**15**	**0.0476**	**0.0238**	**Due to insignificant impact, this discharger was not included in the model.**

BOD and Nutrients TMDL

120507

Bayou Chauvin

Developed by LDEQ; dated 7/18/2007

http://www.deq.louisiana.gov/portal/portals/0/technology/tmdl/pdf/Final_120507BayouChauvinTMDLReport_071807.pdf

The results of the projection modeling for subsegment 120507 show that the water quality standard of 4.0 mg/l for dissolved oxygen can be maintained during the summer critical season with a 43% reduction of total nonpoint pollution. The minimum DO is 4.39 mg/l. Background loading could not be calculated because there were no reference stream studies available for this area.

Table 1. Total Maximum Daily Load (Sum of UCBOD[1], UNBOD, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	(MAR-NOV) (lbs/day)	% Reduction Required	(DEC-FEB) (lbs/day)
Point Source WLA	0	0	0	0
Point Source Reserve MOS (20%)	0	0	0	0
Manmade Nonpoint Source LA	43	21,106	43	18,282
Manmade Nonpoint Source Reserve MOS(20%)	0	5,277	0	4,571
TMDL		26,383		22,853

***Note1: UCBOD as stated in this allocation is Ultimate CBOD.
UCBOD to $CBOD_5$ ratio = 2.3 for all treatment levels
Permit allocations are generally based on $CBOD_5$***

BOD and Nutrients TMDL

120605

Bayou Pointe au Chien

Total Maximum Daily Load (Sum of CBOD, NH3-N, and SOD)

ALLOCATION	SUMMER		WINTER	
	% Reduction Required	March – November (lbs/day)	% Reduction Required	December-February (lbs/day)
Point source WLA	0	11	0	11
Point source MOS		2		2
Total nonpoint source LA	80	465	80	370
Total nonpoint source MOS		112		88
TMDL		590		471

Point Source TMDL Summary 120605

		CURRENT EXPECTED FLOW	CURRENT MONTHLY AVERAGE CONCENTRATION LIMITS		MOS FLOW	TMDL MONTHLY AVERAGE CONCENTRATION LIMITS	
FACILITY	FILE NO.	GPD	$BOD_5/CBOD_5$ (mg/L)	NH_3-N (mg/L)	GPD	$BOD_5/CBOD_5$ (mg/L)	NH_3-N (mg/L)
Ponte au Chien School	LAG540732	9,000	30	NA	2,250	30	NA

120606

TMDL for DO and Nutrients for Bayou Blue within the Terrebonne Basin

Developed by Tetra Tech for EPA; dated 3/14/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/18_bblue_donut_tmdlf.pdf

120708

TMDLs for DO and Nutrients in Lost Lake and Four League Bay

Developed by FTN Associates for EPA; dated 3/25/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/4lostl_4leag_donut_tmdlf.pdf

120709

TMDLs for DO and Nutrients in Bayou Petite Caillou

Developed by FTN Associates for EPA; dated 3/24/2008

http://www.epa.gov/region6/water/npdes/tmdl/2008/louisiana/final/5bpcaillou_donutf_tmdl.pdf

EPA's Hg TMDL for Coastal and Gulf Waters

http://www.epa.gov/earth1r6/6wq/npdes/tmdl/latmdl/2005tmdls/6hgtmdls605f.pdf

Subsegments

010901
021102
042209
070601
110701
120806

APPENDIX A

AREAWIDE POLICIES

AREAWIDE POLICY FOR LOWER LAKE PONTCHARTRAIN BASIN SEGMENT 0401

This areawide policy applies to all sanitary wastewater treatment facilities located in the following *listed* named waterbodies or those waterbodies which contribute to and are contained within the drainage area of the listed waterbodies in the lower half of Segment 0401 of the Lake Pontchartrain Basin[1]:

Draughan Creek
Beaver Bayou
Airforce Depot Canal
Shoe Creek
Hurricane Creek
Jones Bayou
Blackwater Bayou
Cypress Bayou (below Baker Canal)
White Bayou (below Baker Canal)
South Canal
Saunders Bayou
Redwood Creek

This areawide effluent limitations policy is as follows:

1. All Publicly Owned Treatment Works (POTW) having a design capacity of 100,000 gallons per day (gpd) or greater or all other facilities having an expected flow of 100,000 gpd or greater shall be assigned effluent limitations as follows:

   $CBOD_5$ 10 mg/l (avg) / 15 mg/l (max)

   NH_3-N 5 mg/l (avg) / 10 mg/l (max)

2. All POTW's having a design capacity greater than or equal to 25,000 gpd and less than 100,000 gpd or all other facilities having a expected flow greater than or equal to 25,000 gpd and less than 100,000 gpd will be assigned effluent limitations as follows:

   BOD_5 10 mg/l (avg) 15 mg/l (max)

3. Effluent limitations for POTW's having a design capacity of less than 25,000 gpd or all other facilities having an expected flow of less than 25,000 gpd will be decided on a case-by-case basis.

4. Disinfection will be required.

[1] The Baker Canal, upper White Bayou, and upper Cypress Bayou and their tributaries are excluded.

5. Appropriate TSS limitations shall be assigned by the Administrative Authority on a case-by-case basis. However, at no time shall final TSS effluent limitations be less stringent than the secondary treatment levels defined in LAC 33:IX.709.

AREAWIDE POLICY FOR LAKE PONTCHARTRAIN BASIN SEGMENT 0402

This areawide policy applies to all sanitary wastewater treatment facilities located in the following areas:

Ascension Parish
East Baton Rouge Parish
Iberville Parish

and which discharge directly into Bayou Manchac or any other waterbodies which contribute to and are contained in the Bayou Manchac drainage area in Segment 0402 of the Lake Pontchartrain Basin. This includes but is not limited to the following waterbodies:

Bayou Fountain
Wards Creek
Dawson Creek
Alligator Bayou
Welsh Gully
Cotton Bayou
Muddy Creek

This areawide effluent limitations policy is as follows:

1. All Publicly Owned Treatment Works (POTW) having a design capacity of 100,000 gallons per day (gpd) or greater or all other facilities having an expected flow of 100,000 gpd or greater will be assigned effluent limitations as follows:

$CBOD_5$ 10 mg/l (avg) / 15 mg/l (max)

NH_3-N 5 mg/l (avg) / 10 mg/l (max)

2. All POTW's having a design capacity greater than or equal to 25,000 gpd and less than 100,000 gpd or all other facilities having an expected flow greater than or equal to 25,000 gpd and less than 100,000 gpd will be assigned effluent limitations as follows:

BOD_5 10 mg/l (avg) 15 mg/l (max)

3. Effluent limitations for POTW's having a design capacity of less than 25,000 gpd or all other facilities having an expected flow of less than 25,000 gpd will be decided on a case-by-case basis.

4. Disinfection will be required.

5. Appropriate TSS limitations shall be assigned by the Administrative Authority on a case-by-case basis. However, at no time shall final TSS effluent limitations be less stringent than the secondary treatment levels defined in LAC 33:IX.709.

AREAWIDE POLICY FOR LAKE PONTCHARTRAIN BASIN SEGMENT 0403

This areawide policy applies to all sanitary wastewater treatment facilities discharging directly into the Amite River or any of the following waterbodies or tributaries to these waterbodies (includes but is not limited to) in segment 0403 as follows:

East Baton Rouge Parish

Redman Lake
Clay Cut Bayou
Jones Creek
Honey Cut Bayou
Hub Bayou
Sandy Creek
Kidds Creek
Whittten Creek

Northwest Livingston Parish

Spillers Creek
Clayton Creek
Beaver Creek
Colton Creek
Long Slash
Gray's Creek
Colyell Bay

The areawide effluent limitations policy is as follows:

1. All Publicly Owned Treatment Works (POTW) having a design capacity of 100,000 gallons per day (gpd) or greater or all other facilities having an expected flow of 100,000 gpd or greater will be limited as follows:

   $CBOD_5$ 10 mg/l (avg) / 15 mg/l (max)

   NH_3-N 5 mg/l (avg) / 10 mg/l (max)

2. All POTW's having a design capacity greater than or equal to 25,000 gpd and less than 100,000 gpd or all other facilities having an expected flow greater than or equal to 25,000 gpd and less than 100,000 gpd will be limited as follows:

   BOD_5 10 mg/l (avg) / 15 mg/l (max)

3. Limitations for POTW's having a design capacity of less than 25,000 gpd or all other facilities having an expected flow of less than 25,000 gpd will be decided on a case-by-case basis.

4. Disinfection will be required.

5. Appropriate TSS limitations shall be assigned by the Administrative Authority on a case-by-case basis. However, at no time shall final TSS effluent limitations be less stringent than the secondary treatment levels defined in LAC 33:IX.709.

AREAWIDE POLICY FOR ST. TAMMANY PARISH

This areawide policy applies to all sanitary wastewater treatment facilities in the following area:

St. Tammany Parish

All sanitary wastewater treatment facilities which discharge directly into any of the following waterbodies or into waterbodies which contribute to and are contained within the drainage area of both the Lake Pontchartrain Basin and the Pearl River Basin. These waterbodies include, but are not limited to the following:

West Pearl River
Bayou Lacombe
Tchefuncte River
Bogue Falaya River
Abita River
Bayou Bonfouca
Bayou Liberty
Lake Pontchartrain

This areawide effluent limitations policy is as follows:

1. All Publicly Owned Treatment Works (POTW) having a design capacity of 100,000 gallons per day (gpd) or greater or all other facilities having an expected flow of 100,000 gpd or greater will be limited as follows:

   $CBOD_5$ 10 mg/l (avg) / 15 mg/l (max)

   NH_3-N 5 mg/l (avg) / 10 mg/l (max)

2. All POTW's having a design capacity greater than or equal to 10,000 gpd and less than 100,000 gpd or all other facilities having an expected flow greater than or equal to 10,000 gpd and less than 100,000 gpd will be limited as follows:

   BOD_5 10 mg/l (avg) / 15 mg/l (max)

3. Limitations for POTW's having a design capacity of less than 10,000 gpd or all other facilities having an expected flow of less than 10,000 gpd will be decided on a case-by-case basis.

4. Disinfection will be required.

5. Post-aeration with an effluent dissolved oxygen limit of 5 mg/l may be required on a case-by-case basis.

6. Appropriate TSS limitations shall be assigned by the Administrative Authority on a case-by-case basis. However, at no time shall final TSS effluent limitations be less stringent than the secondary treatment levels defined in LAC 33:IX.709.

AREAWIDE POLICY FOR VERMILION RIVER BASIN SEGMENT 0608

This areawide policy applies to all facilities discharging directly into the Vermilion River or into any named or unnamed waterbodies which contribute to and are contained within the drainage area of the Vermilion River in Segment 0608 of the Vermilion River Basin[1] .

This areawide effluent limitations policy is as follows:

Sanitary Wastewater Treatment Facilities

1. All Publicly Owned Treatment Works (POTW) having a design capacity greater than 25,000 gallons per day (gpd) or any other facility having an expected flow greater than 25,000 gpd will be limited as follows:

April through November

$CBOD_5$ 10 mg/l (avg) / 15 mg/l (max)
NH_3-N 5 mg/l (avg) / 10 mg/l (max)
Dissolved Oxygen 5 mg/l (minimum)

December through March

$CBOD_5$ 20 mg/l (avg) / 30 mg/l (max)
NH_3-N 10 mg/l (avg) / 20 mg/l (max)
Dissolved Oxygen 5 mg/l (minimum)

2. All POTW's having a design capacity less than or equal to 25,000 gpd or all other facilities having an expected flow less than or equal to 25,000 gpd will be limited as follows:

BOD_5 30 mg/l (avg) / 45 mg/l (max)

3. Specific concentration limits for the City of Lafayette POTW's[1] will be established through consultation with local representatives.

4. Disinfection will be required for all sanitary wastewater dischargers.

5. Appropriate TSS limitations shall be assigned by the Administrative Authority on a case-by-case basis. However, at no time shall final TSS effluent limitations be less stringent than the secondary treatment levels defined in LAC 33:IX.709.

Industrial Dischargers

[1] The above effluent limitations were established based upon the wasteload allocation model developed for the Vermilion River (Wasteload Allocation for the Vermilion River, 1987)..
[1] Flows of these plants may be adjusted such that total Wasteload allocation limitations are not exceeded.

Industrial dischargers will be required to treat to equivalent levels.

APPENDIX B

STATEWIDE SANITARY EFFLUENT LIMITATIONS POLICY

STATEWIDE SANITARY EFFLUENT LIMITATIONS POLICY

1. Dischargers given specific limits in a final TMDL shall be assigned those limits.

2. The Atchafalaya, Red, and Mississippi Rivers are river systems which because of flow or dispersion would not be significantly impacted by a secondary discharge of the largest size to be reasonably expected from these areas. Sanitary wastewater treatment facilities discharging into these systems will be assigned *SECONDARY TREATMENT.*

3. Areawide policies adopted by the Department for establishment of effluent limits in specified area of the State, will supersede limits assigned in the original 1980 Basin Plans.

4. Remaining sanitary dischargers will be assigned effluent limits according to the following schedule:

FLOW	TREATMENT LEVEL MG/L
<25,000 GPD	30 BOD_5/30 OR 90 TSS Secondary*
25,000 – 50,000 GPD	20 BOD_5/20 TSS Advanced Secondary
>50,000 GPD	10 BOD_5/15 TSS Advanced

5. Individual dischargers may request alternate permit limits by performing an individual analysis which is supervised and approved by the Department.

NOTE: The LDEQ reserves the right to assign an effluent limitation based upon an individual discharge analysis, regardless of any previously established effluent limitation.

+ Whenever NH_3 limits are assigned to a facility, $CBOD_5$ will be required rather than BOD_5.
* Louisiana Administrative Code: Volume 14, 33:IX.711D
- Mechanical Treatment Systems = 30 TSS
- Oxidation Ponds = 90 TSS

APPENDIX C

Hauled Domestic Septage Policy

Acceptance of Hauled Domestic Septage at Sanitary Wastewater Treatment Facilities

This policy has been established to provide guidelines for the development of LPDES permit conditions for those sanitary wastewater treatment facilities (both public and private) that accept hauled domestic septage into the treatment system.

Louisiana's water quality regulations define domestic septage as the liquid and solid material pumped from a septic tank, cesspool, portable toilet, Type III marine sanitation device, any similar domestic sewage treatment system, or a holding tank when the system is cleaned or maintained that receives only domestic sewage. Domestic sewage includes waste and wastewater from humans or household operations that are discharged to or otherwise enter a treatment works.

The acceptance of hauled domestic septage into any sanitary wastewater treatment system is prohibited unless proper notification procedures have been met. This includes notification to the Office of Environmental Services as outlined at LAC 33IX.2703 or by representation in the permit application. A general prohibition will be placed into Part II of all LPDES sanitary wastewater permits, unless the applicant has properly notified the Department.

The Department shall establish and maintain a strategy for the development and implementation of LPDES permit requirements for those facilities receiving hauled domestic septage containing at minimum conditions for the development of a manifest system, vehicle log, recordkeeping and reporting requirements.